The Johns Hopkins University

Conferring of Degrees at the Close of the Ninety-eighth Academic Year

May 24, 1974

Keyser Quadrangle

Homewood

Baltimore, Maryland

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ORDER OF PROCESSION

MARSHALS

MARY D. AINSWORTH
MATTHEW A. CRENSON
HANS GOEDICKE
GERALD S. GOTTERER
ROBERT E. GREEN
JOHN W. GRYDER
WILLIAM H. HUGGINS
ROBERT A. LYSTAD
RICHARD A. MACKSEY
PAUL R. OLSON
EVERETT L. SCHILLER

THE GRADUATES

*

MARSHALS

CARL F. CHRIST
FRANCIS E. ROURKE

MEMBERS OF THE SOCIETY OF SCHOLARS
THE DEANS
OFFICERS OF THE UNIVERSITY
THE TRUSTEES

*

MARSHALS

MICHAEL BEER
JOHN WALTON

THE FACULTIES

*

CHIEF MARSHAL

MAURICE MANDELBAUM

THE CHAPLAINS
NEWLY INDUCTED MEMBERS OF THE SOCIETY OF SCHOLARS
PRESENTORS OF THE HONORARY DEGREE CANDIDATES AND THE HONORARY DEGREE CANDIDATES
THE PROVOST OF THE UNIVERSITY
PRESIDENT EMERITUS OF THE UNIVERSITY
CHAIRMAN OF THE BOARD OF TRUSTEES
THE PRESIDENT OF THE UNIVERSITY

*

ORDER OF EVENTS

STEVEN MULLER
President of the University, presiding

* * *

PROCESSIONAL

The audience is requested to stand as the Academic Procession moves into the area and to remain standing until after the Invocation

Crown Imperial
Sir William Walton

The Peabody Wind Ensemble
RICHARD HIGGINS, *Director*

*

INVOCATION

REV. CHESTER WICKWIRE
Chaplain, The Johns Hopkins University

*

"THE STAR-SPANGLED BANNER"

*

GREETINGS

ROBERT D. H. HARVEY
Chairman of the Board of Trustees

*

PRESENTATION OF NEW MEMBERS OF THE SOCIETY OF SCHOLARS

LYMAN C. CRAIG
HELEN VAN VUNAKIS

*

SCHOLARS PRESENTED BY HARRY WOOLF
Provost of the University

*

MUSICAL INTERLUDE

The Peabody Wind Ensemble

CONFERRING OF HONORARY DEGREES

BENJAMIN M. BAKER
FREDERIC C. LANE
JOHN MERRILL OLIN
RAFAEL HERNÁNDEZ-COLÓN

*

ADDRESS

HIS EXCELLENCY RAFAEL HERNÁNDEZ-COLÓN
Governor of the Commonwealth of Puerto Rico

CONFERRING OF DEGREES ON CANDIDATES

BACHELORS OF ARTS
BACHELORS OF ENGINEERING SCIENCE

Presented by

GEORGE E. OWEN
Dean, Faculty of Arts and Sciences

* * *

ASSOCIATES OF ARTS
ASSOCIATES OF SCIENCE
BACHELORS OF SCIENCE
BACHELORS OF SCIENCE IN ENGINEERING

Presented by

ROMAN J. VERHAALEN
Dean, Evening College

* * *

MASTERS OF SCIENCE
MASTERS OF EDUCATION
MASTERS OF LIBERAL ARTS
MASTERS OF ADMINISTRATIVE SCIENCE
CERTIFICATES OF ADVANCED STUDY IN EDUCATION OR LIBERAL ARTS

Presented by

ROMAN J. VERHAALEN
Dean, Evening College

* * *

MASTERS OF SCIENCE
MASTERS OF HEALTH SCIENCE
MASTERS OF PUBLIC HEALTH

Presented by

JOHN C. HUME
Dean, School of Hygiene and Public Health

* * *

MASTERS OF ARTS

Presented by

ROBERT E. OSGOOD
Dean, School of Advanced International Studies

* * *

MASTERS IN MENTAL HEALTH
MASTERS OF ARTS

Presented by

RUSSELL H. MORGAN
Dean, School of Medicine

* * *

MASTERS OF SCIENCE IN ENGINEERING
MASTERS OF ARTS

Presented by

GEORGE E. OWEN
Dean, Faculty of Arts and Sciences

* * *

DOCTORS OF SCIENCE
DOCTORS OF PUBLIC HEALTH
DOCTORS OF PHILOSOPHY

Presented by

JOHN C. HUME
Dean, School of Hygiene and Public Health

* * *

CONFERRING OF DEGREES ON CANDIDATES
continued

DOCTORS OF PHILOSOPHY

Presented by

ROBERT E. OSGOOD
Dean, School of Advanced International Studies

* * *

DOCTORS OF MEDICINE
DOCTORS OF PHILOSOPHY

Presented by

RUSSELL H. MORGAN
Dean, School of Medicine

* * *

DOCTORS OF PHILOSOPHY

Presented by

GEORGE E. OWEN
Dean, Faculty of Arts and Sciences

* * *

STATEMENT TO THE GRADUATES

STEVEN MULLER
President of the University

*

BENEDICTION

REV. CLYDE SHALLENBERGER
Director, Chaplaincy Service
Johns Hopkins Medical Institutions

*

RECESSIONAL

Earle of Oxford's Marche
WILLIAM BYRD

The audience is requested to remain standing after the Benediction until the members of the faculties and graduates have left the area.

* * *

CITATIONS FOR HONORARY DEGREES

Citation Read by

VICTOR A. MCKUSICK

in Presenting

BENJAMIN M. BAKER

for the Degree of Doctor of Laws

Mr. President, it is my pleasure to present for an honorary degree a scholar, a superb physician and a gentleman. His academic career included a period at Oxford University as a Rhodes scholar. After his education in medicine here at Johns Hopkins, he practiced for over three decades as a leading consultant in internal medicine on the Hopkins staff. During this time generations of students and house officers learned from him the art and science of medicine through example and precept.

His scholarship in clinical medicine has been directed particularly at the understanding, treatment and prevention of coronary artery disease. He pioneered in the use of the ballistocardiogram in the diagnosis and evaluation of heart disease long before the now popular generic term, non-invasive techniques, was even invented. He was also a pioneer in the dietary approach to prevention of heart disease.

Since retirement, he has gone beyond the narrow confines of his specialty and directed his attention to problems of delivery of health care in the inner city setting, including the training of nurses for a larger role in medical care. His wisdom and judgment have been an inestimable aid and inspiration to his associates old and young alike. The gentlemanly charm of this native Virginian has made Johns Hopkins a better place for all his colleagues to work productively.

Mr. President, it is a pleasure to present Benjamin M. Baker for the honorary degree of Doctor of Laws.

Citation Read by

JOHN W. BALDWIN

in Presenting

FREDERIC C. LANE

for the Degree of Doctor of Laws

Mr. President, from its inception in 1876 The Johns Hopkins University has pioneered in the graduate study of history. A half century later Frederic C. Lane arrived at the University as a young instructor in history. His subsequent career of thirty-eight years at Johns Hopkins has spanned a second rise of the history department to national preeminence, a preeminence to which his accomplishments contributed in large measure.

Frederic Lane has won honors in a score of scholarly societies culminating in the presidencies of the American Historical Association and the International Economic History Association. As a historian of Venice, the Italian Renaissance and the European economy, he has challenged students and colleagues with his high example of exacting scholarship. "Work with a magnifying glass," Fernand Braudel once wrote of Lane, "then it is permitted to raise one's sights." Accordingly, his investigations have ranged from the definition of medieval shipping tonnages to the assessment of the economic consequences of organized violence.

Professor Lane's patient labors in the secluded Venetian archives permitted

him to scan the horizons of the Mediterranean because Venice was the New York of the sixteenth century. His painstaking research appearing in books and articles since 1932 has promised a broad and definitive interpretation of the city of the lagoons. He has kept his word in his magisterial book, *Venice a Maritime Republic,* published this year. Mr. President, this affords us the happy occasion to present Frederic C. Lane for the honorary degree of Doctor of Laws.

Citation Read by

BROWN L. MURR

in Presenting

JOHN M. OLIN

for the Degree of Doctor of Laws

Mr. President, I have the honor to present to you for the degree of Doctor of Laws, John Merrill Olin, brilliant businessman, outstanding inventor, devoted member of the Board of Trustees of this University for two decades, vigorous conservationist.

In 1906, John Olin began work at age 14 for ten cents an hour in his father's Equitable Powder Manufacturing Company. As the company's first trained scientist, having earned a bachelor's degree in chemistry from Cornell in 1913, his first patented invention, still in use today, raised the company to the front rank of ammunition manufacturers. In 1931, as vice president of the Western Cartridge Company, he took charge of the failing Winchester Arms Company and transformed it into a highly successful enterprise. As president of Olin Industries, he directed the company's diversification into paper, lumber and cellophane, and engineered the merger with the Mathieson Corporation. His contributions in other endeavors have been equally outstanding. His numerous inventions were recognized in 1968 by the Charles F. Kettering Award, and he is responsible for more developments in the sporting firearms and ammunition industry than any other person. His efforts have fostered wildlife conservation in America and throughout the world.

Mr. President, it is my pleasure to present to you for the honorary degree of Doctor of Laws, John Merrill Olin.

Citation Read by

HARRY WOOLF

in Presenting

RAFAEL HERNÁNDEZ-COLÓN

for the Degree of Doctor of Laws

Mr. President, it is an honor to welcome back to Johns Hopkins Mr. Rafael Hernández-Colón, who distinguished himself here as a student in the mid-1950's and in the relatively brief time since then has become the youngest elected governor in the history of the Commonwealth of Puerto Rico.

The University can take special pride in his career because it was here in connection with work in political science that he wrote a thesis dealing with the relationship between Puerto Rico and the United States. That paper first brought him to the attenion of a former governor of his country and subsequently played a role in the start of Mr. Hernández-Colón's own political career.

Remembered by some of his former teachers as above all a serious-minded and exceptionally hard-working student, Mr. Hernández-Colón graduated from Johns Hopkins in 1956 with high honors, including the Julius Turner Award for the best thesis in political science. He earned a law degree from the University of Puerto Rico in 1959, Magna Cum Laude, winning first honors of his class and the Puerto Rico Bar Association Award for best student in his class. He began a private law practice, and from 1961 to 1966 was professor of law at Catholic University of Puerto Rico.

In 1965 he assumed his first major public office as Secretary of Justice. There his interests ranged over a broad spectrum of legal and social issues. During his tenure he drafted bills on the Political Code, the Mortgage Code, and the 1967 Plebiscite Act. He initiated penal reform and reorganized the Department of Justice.

In 1968 Mr. Hernández-Colón moved into a more competitive arena of politics and was elected to the Senate of Puerto Rico. His effectiveness in that body led to his being chosen its president one year later. Shortly thereafter he was designated president of the Popular Democratic Party and became its nominee for the governorship in 1972. A strong proponent of the present autonomous commonwealth status for Puerto Rico, he won that election by a substantial margin over the incumbent governor.

Mr. Hernández-Colón has received numerous honors for service both in public office and as a conscientious private citizen whose efforts have penetrated deeply into the civic affairs of his country. He has written and published articles on a variety of subjects relating to law and justice, including civil procedure, criminal procedure under a unified court system, the selection of the judiciary, and the constitutionality of the Commonwealth of Puerto Rico.

Politics and government, his principal interests as a student, remain his principal interests today. In his country he faces the delicate and difficult political task of achieving a consensus among those who advocate statehood, a group that includes his father; proponents of the commonwealth status, of which he himself is a leading spokesman; and those who want complete independence, among whom is one of his brothers. We know that in this demanding task his youth and vitality will be among his strongest assets.

Mr. President, it is an honor to present for the degree of Doctor of Laws His Excellency, the Governor of Puerto Rico, Mr. Rafael Hernández-Colón.

JOHNS HOPKINS SOCIETY OF SCHOLARS

The Johns Hopkins Society of Scholars was created on the recommendation of former President Milton S. Eisenhower and approved by action of the University Board of Trustees on May 1, 1967. The Society—the first of its kind in the nation—inducts former postdoctoral fellows at Johns Hopkins who have gained marked distinction in their fields of physical, biological, medical, social, or engineering sciences or the humanities, and for whom at least five years have elapsed since their postdoctoral work. The Committee of the Johns Hopkins Society of Scholars, whose members are equally distributed among the academic divisions, elects the Scholars from the candidates nominated by the academic divisions having programs for postdoctoral fellows. Each division has the privilege of nominating up to three candidates for each election year. The Scholars are invested during the graduation ceremony, the Commemoration Day ceremony, or on some similar occasion and are presented with a diploma and a medallion with black and gold ribbon to be worn around the neck with their academic costume.

Today's induction ceremony will honor the ten new members of the Johns Hopkins Society of Scholars.

Dana W. Atchley is emeritus professor of the College of Physicians and Surgeons at Columbia University. Dr. Atchley, who is both an educator and physician, is particularly interested in the chemical problems of internal medicine, physiological chemistry, edema and nephritis. He served his postdoctoral fellowship at Johns Hopkins from 1915 to 1916 as an assistant resident in medicine and again from 1919 to 1921 as an instructor in medicine.

Eugene Braunwald, who is professor and director of the Peter Bent Brigham Hospital, Boston, was a postdoctoral fellow in medicine from 1957 to 1958 serving as an assistant resident. He later served as a lecturer in medicine from 1962 to 1967 while he was at the National Institute of Health. Dr. Braunwald is a leader in the field of cardiovascular research.

Marcolino Candau received his medical education in his native Brazil, and attended the School of Hygiene and Public Health from which he was graduated with a Master of Public Health Degree in 1941. In 1950 he joined the World Health Organization, and after several years of distinguished service, was named its director. The Johns Hopkins University awarded Dr. Candau an honorary Doctor of Laws degree in 1962.

Lyman C. Craig was at Johns Hopkins from 1931 to 1933 as an independent investigator sponsored by Professor E. E. Reid of the Department of Chemistry. He is now professor of biochemistry at Rockefeller University. Dr. Craig has been active in the structural study of a number of important medicinal agents. As the inventor of the Craig machine for counter-current distribution, Dr. Craig made an indispensible contribution to the anti-malarial effort, permitting the assay of impure preparations and showing the active components of the mixtures.

Dr. Craig is present at today's ceremonies.

Phyllis M. Deane is presently a Reader in the Department of Economics and Politics at the University of Cambridge. She has been and is an important contributor to two areas of empirical economics and economic history: the growth of the British economy since 1688, and national economic accounting. Dr. Deane is the author and editor of numerous books and articles. She was a postdoctoral fellow at Johns Hopkins from 1956 to 1957 in the Department of Political Economy.

Earl A. Evans, Jr. is professor of biochemistry at the University of Chicago. He worked at Johns Hopkins from 1931 until 1934 with Dr. John Jacob Abel in the Department of Pharmacology. Dr. Evans has published many articles, and he is especially known for his published work in the basic chemistry of insulin encompassing the early fundamental investigations of the chemical nature of this crystalline hormone.

Harold J. Evans was an E. F. Johnson Postdoctoral Fellow in the McCollum-Pratt Institute in 1952. Presently Dr. Evans is professor of plant physiology at Oregon State University. His research has been concerned with the molybdenum requirements of legumes, the properties of the pyridine nucleotide nitrate reductases in higher plants and fungi, the univalent cation requirements, and biochemical role of univalent cations in plants and other organisms, the cobalt requirements and the biochemical role of cobalt in legumes and Rhizobium species.

Arnaldo Gabaldon was graduated from the School of Hygiene and Public Health with the Doctor of Science Degree in 1935, and then returned to his homeland, Venezuela, where he became a major force in the health field, primarily through his work in controlling and later eradicating malaria. He has received the highest honors of his country and was at one time urged to accept the nomination for the Presidency of his country. He refused in order to continue his activities in the health field.

Thomas P. S. Powell, a Reader in Human Anatomy at Oxford University, was a postdoctoral fellow at Johns Hopkins from 1956 to 1958 in the Department of Physiology. Dr. Powell has come to dominate the particular field of neuroanatomy in which he has chosen to work, namely the "systems connectivity" of the central nervous system.

Helen Van Vunakis was graduated from Columbia University in 1951 with a Ph. D. and came directly to Johns Hopkins to do postdoctoral studies in the Department of Biochemistry at the School of Hygiene. Dr. Van Vunakis is now professor of biochemistry at Brandeis University where she has carried out extensive basic studies of the structure of enzymes and their precursors, of bacterial viruses, and of the use of immunological procedures to detect small changes in nucleic acids.

Dr. Van Vunakis is present at today's ceremonies.

THE UNIVERSITY MACE

The University Mace carried by the Chief Marshal, Professor Maurice Mandelbaum, was first used at the 1954 Commemoration Day Exercises. Eight symbols are hand wrought in sterling silver on an ebony staff. The symbols represent man's cultural development from ancient times, through the Middle Ages and the Renaissance, to the modern era.

THE PRESIDENTIAL INSIGNIA

University President Steven Muller is wearing the Presidential Insignia signifying the authority vested in the President by the Board of Trustees. It is a chain of sterling silver links worn around the neck. Portraits of each of the ten Johns Hopkins University Presidents are engraved on the faces of ten of the links. On the reverse are engraved the names and dates of office of each President. Ten blank links for future use are included. The University Seal completes the design.

ACADEMIC DRESS

The custom of wearing academic dress stems from the Middle Ages, when scholars were also clerics and wore the costume of their monastic order. The hood was originally a cowl attached to the gown, which could be slipped over the head for warmth. The cap was originally round, but has changed to the varieties that we see today.

The gown varies for the respective degrees. The Bachelor's gown is worn closed and can be distinguished by its long, pointed sleeves. The Master's gown is designed to be open with the arms worn through the slits in the elbows of the sleeves. The Doctor's gown, also worn open, has full, bell-shaped sleeves with three horizontal bars stitched across the upper arm. There is a velvet panel draped around the neck and stitched down the front edges. This velvet trimming may be either black or the same color as the velvet border of the hood.

The hood also varies for the respective degrees. The Bachelor's and Master's hoods are of the same design, pointed at the base. The Bachelor's hood is three feet long; the Master's hood is three and one half feet long. The Doctor's hood is four feet long, of fuller shape and rounded at the base.

The hood is bordered with velvet, the color of which indicates the field of study in which the degree was earned:

Dark blue — Philosophy
Light blue — Education
Orange — Engineering
Gold-yellow — Science
Green — Medicine
Salmon pink — Public Health
Pink — Music
Purple — Laws
White — Arts and Letters

The silk lining of the hood represents the institution which granted the degree. If more than one degree is held, the gown and hood of the higher or highest degree is worn. The Johns Hopkins University has adopted an alternative costume to be used by all holding Johns Hopkins doctoral degrees, both earned and honorary. The costume consists of a gold robe with front and side panels in sable velvet and a six-sided Dutch academic cap with gold sweatband and tassel. The linings seen in today's academic procession may include:

Black, old gold chevron — Johns Hopkins
Light blue, white chevron — Columbia
Dark blue — Yale
Blue with white chevron — Duke
Dark blue, two orange chevrons — Illinois
Light blue, two white chevrons — North Carolina
Old gold, maroon chevron — Minnesota
Old gold — Iowa
Gold, blue chevron — California
Gold — Virginia
Purple, gold chevron — Northwestern
Purple — New York University
Bright red — Wisconsin
Plum, with scarlet — London
Maroon — Chicago
Crimson — Harvard
Carnelian, two white chevrons — Cornell
Cardinal — Stanford
Red, tri-chevron in center — Heidelberg
Dandelion yellow — Michigan
Maize, azure blue chevron — Sorbonne
Yellow and white — Rochester

THE UNIVERSITY MOTTO

Veritas vos liberabit.

The truth shall make you free.

—St. John 8:32

AWARDS

THE DELTA SIGMA PI SCHOLARSHIP KEY

in the Division of Administration and Business of the Evening College
for the highest average for the entire course

Awarded to

DAVID LAWRENCE REIDINGER

THE C. RICHARD MARTIN AWARD

in Political Economy for outstanding work by a first or second year graduate student

Awarded to

FLINT BRAYTON

THE ERNEST M. MARKS AWARD

in Chemistry in recognition of excellence in instruction

Awarded to

CAROL CAPERELLI
CAROLE LEVANDA

THE PAUL A. McCOY PRIZE

for the most distinguished Masters Essay in Political Science

Awarded to

ALAN EADE

THE SARAH & ADOLPH ROSEMAN ACHIEVEMENT AWARD

in Chemistry in recognition of outstanding accomplishment

Awarded to

J. MICHAEL FINLAN
MARILYN HUDGENS

THE ROBERT BRUCE ROULSTON PRIZE

for excellence in German

Awarded to

ALAN LEIDNER
MARLI WEINER

THE JULIUS TURNER AWARD

for the most distinguished Senior Thesis in Political Science

Awarded to

CURTIS M. GIBBS

THE SEVERN TEACKLE WALLIS MEMORIAL PRIZE

for an outstanding essay in the field of Spanish history

Awarded to

J. LLOYD ELSTEN

THE WALL STREET JOURNAL STUDENT ACHIEVEMENT AWARD

in the Division of Administration and Business of the Evening College
for outstanding scholarship and exceptional promise of future success

Awarded to

CHARLES RICHARD KAPPEL

PHI BETA KAPPA

Members Elected in 1973-74

From the Junior Class in the Faculty of Arts and Sciences

Jonathan Blake Albin
Janice Blustein
Michael Richard Braudes
Michael Cary Brunner
Lurline Frances Devos
Michael Dine
Jonathan Lee Higdon
Michael Joseph Jimenez
Stuart Edward Mirvis
David Anthony Piccoli
Andrew Wade Savitz
David Brian Tapper
Harold Chiling Yang

From the Baccalaureate Candidates in the Faculty of Arts and Sciences

Gary Steven Berman
William Robert Berry, Jr.
Lawrence Francis Borges
Fred G. Bromberg
Helena Catherine Chang
Scott Campbell Dennis
Mindy Gae Farber
Joel Jay Feinberg
Robert Freundlich
Morris Funk
Meryl Paula Cohen Gardner
Samuel Jack Hassenbusch III
Neil Livingstone Hazard
Barbara Benton Hill
Arthur Raymond Israel
Richard Neil Kolesnick
James Allen Lagodney
Hans Hamilton Liu
Andrew William Loftus
Walter Murphree Meginniss, Jr.
Charles Andrew Mick
William Gordon Milne
Brian Kevin Phelan
Linda Williams Pickle
Jeffrey Church Pitts
Anthony Louis Pucillo
Albert Anthony Rizzo
Jay William Rockstroh
Jay Hoon Ryu
Charles Michael Schron
Alan Bernard Schwartz
Theodore Charles Sectish
Frederick Louise Slone
Steven Emil Szebenyi
John Thomas Tierney
Jonathan Ross Tillem
William Charles Trogler
JoAnn Stephanie Turisco
Sandra Welgreen
Fred Charles Zacharias

From the Doctor of Medicine Candidates in the Faculty of Medicine

Jonathan Scott Coblyn
Monte Anthony Del Monte
Alexander Graham Little III
Steven Edward Selden
Robert D. Shuman, Jr.

From the Doctor of Philosophy Candidates in the Faculty of Arts and Sciences

Paul Camille DeGrauwe
Tatsuo Hatta
Chih-ming Ho
Daniel Patrick Keating
Robert James Semper
Nancy Elizabeth Moller Weare

TAU BETA PI

The following Baccalaureate Candidates have been elected to Tau Beta Pi — The National Engineering Honor Society

From the Faculty of Arts and Sciences

William Gerard Bath
Neil Livingstone Hazard
Christof Heinz Heithecker
Ronald Alan Kline
Edward Francois Charles LaBerge
Stephen J. Thompson
Theodore Stanley Zajac, Jr.

From the Evening College

William Charles Bailey
William Donald Davis
Lawrence John Kalb
William Stewart Nash
Warren Melvin Scheinin
David Andrew Snyder
Robert Charles Windham
David Rudolph Zenker

HONORS

Baccalaureate Candidates in the Faculty of Arts and Sciences

Graduating with General Honors

Thomas Stewart Amrhein
Michael Francis Angel
Jeremy August
Alan Nathaniel Baer
Ivy Sydney Baer
David Samuel Baron
William Gerard Bath
Robert Curliss Benjamin
Gary Steven Berman
William Robert Berry, Jr.
Brenda Jean Bodian
Douglas Alan Boenning
Allen Michael Booth
Lawrence Francis Borges
Fred G. Bromberg
John Francis Campion
Nathan Lawrence Centers
Helena Catherine Chang
Betty E. Charmatz
Allen Anthony Ciuffo
David Elliott Cohen
Michael Timothy Collins
Patrick Robert Conner
Richard S. D'Agostino
Paul Edward Darcy, Jr.
Scott Campbell Dennis
Armand Neal DeSanctis
Michael Dine
Gary Neil Dolin
Robert George Dorr
John Gregson Dubs
John Alan Duncan
Mindy Gae Farber
Joel Jay Feinberg
Mary Elina Ferris
Timothy Michael Fitch
Robert Freundlich
Richard Harold Fritz
Morris Funk
Meryl Paula Cohen Gardner
Pamela Ester Giller
Gunter Harald Glocker
Edward Michael Golenberg
Alan Niles Gordon
Carol L. Gore
Robert Laveille Gray
Michael Gregory Gressel
Mark Damian Harris
Samuel Jack Hassenbusch III
Neil Livingstone Hazard
Christof Heinz Heithecker
Barbara Benton Hill
Jay Stanley Himmelstein
Kathleen Elizabeth Hunt
Arthur Raymond Israel
Mark Henry Karwan
Barry Alan Kemelhor
Janet Louise Kennedy
Laurence Ralph Kepple
Sally Alexandra Kerpelman
Linda Gail Kleinbaum
Ronald Alan Kline
Richard Neil Kolesnick
Gail Rishel Kordish
Thomas Joseph Kwiatkowski, Jr.
Edward Francois Charles LaBerge
James Allen Lagodney
Renee Barbara Laniado
Frederick Lanni
Alan Charles Leidner
James Edward Lesnick
Robert Lewin
Hans Hamilton Liu
Andrew William Loftus
Benetta Mollie Mansfield
Norman Aaron Marcus
Robert Compton May
Daniel Blair McDonald
Walter Murphree Meginniss, Jr.
Robert John Mich
Charles Andrew Mick
William Gordon Milne
Sydney H. Mondell
James Stephen Moran
Keith Shelby Naunheim
Sylvain Palmer
Jennifer Mary Pearce
Linda Williams Pickle
Jeffrey Church Pitts
Dale Robert Pokorney
Anthony Louis Pucillo
Philip David Pulaski
William Edward Rankin
Richard Carter Raymond
Pamela Lynne Regis
Anthony Richard Riela
Albert Anthony Rizzo
Ann Michelle Roberts
Jay William Rockstroh
Gail Judith Rosenberg
William James Rubin
Jay Hoon Ryu
John Armen Saryan
Rosalind Amy Schaefer
Robert Scott Schepp
Charles Michael Schron
Alan Bernard Schwartz
Theodore Charles Sectish
Thomas Edmund Skinner
Frederick Louis Slone
Stanley Arthur Snyder
Richabd David Spal
Malcolm Aubrey Steele
Christine Steiner
Jur Strobos
Steven Emil Szebenyi
John R. Terrell, Jr.
Richard Wilder Theibert
John Thomas Tierney
Jonathan Ross Tillem
William Charles Trogler
JoAnn Stephanie Turisco
Liliana Graciela Visscher
Ethylin Sidney Wang
Marli Frances Weiner
Sandra Welgreen
Harold Chiling Yang
Fred Charles Zacharias
Beth Ellen Zaro

Baccalaureate Candidates in the Faculty of Arts and Sciences

Graduating with Departmental Honors

Thomas Stewart Amrhein
Alan Nathaniel Baer
David Samuel Baron
Henry Cecil Baron
William Gerard Bath
Robert Curliss Benjamin
Nathan Lawrence Centers
David Elliott Cohen
Michael Timothy Collins
Henry Milton Crosswhite III
Mark Morris Davis
Scott Campbell Dennis
Armand Neal DeSanctis
Michael Dine
Mindy Gae Farber
Meryl Paula Cohen Gardner
Joseph Reed Glasmann
Edward Michael Golenberg
Carol L. Gore
Neil Livingstone Hazard
Christof Heinz Heithecker
Marguerite Larue Ingalls
Robert Isaac Jeffrey
Mark Henry Karwan
Laurence Ralph Kepple
Linda Gail Kleinbaum
Ronald Alan Kline
Phyllis Ireton Koski
Edward Francois Charles LaBerge
Frederick Lanni
Alan Charles Leidner
Kenneth Richard Levitzky
Andrew William Loftus
Benetta Mollie Mansfield
Norman Aaron Marcus
Christopher James Mason
Robert Compton May
Daniel Blair McDonald
Robert John Mich
William Gordon Milne
Sidney H. Mondell
James Stephen Moran
Lemuel Alexander Moyé III
Richard Sauter Patterson
Ricardas Vladas Paulis
Jennifer Mary Pearce
William Edward Rankin
Pamela Lynne Regis
Ann Michelle Roberts
William James Rubin
Richard David Spal
Stephen J. Thompson
John Thomas Tierney
William Charles Trogler
JoAnn Stephanie Turisco
Beth Ellen Zaro

Baccalaureate Candidates in The Evening College

Graduating with Honors

William Charles Bailey
Elaine Priscilla Allen Bartles
William Donald Davis
Mary Elisabeth Williams Dowling
Lawrence John Kalb
Charles Richard Kappel
Dana Evans McGinnis
William Stewart Nash
Kenneth Joseph Nierwienski
David Lawrence Reidinger
Warren Melvin Scheinen
Steve Robert Shimko
David Andrew Snyder
Norma Sheila Tucker Walker
Robert Charles Windham

CANDIDATES FOR DEGREES

As of May 14, 1974

BACHELORS OF ARTS

in the Faculty of Arts and Sciences

Jonathan Alpert, of Westfield, N. J.
Harold Arthur Altman, Jr., of Ford City, Pa.
Jeffrey Louis Altman, of Syracuse, N. Y.
Robert Woodrow Anderson, of Frederick, Md.
Thomas Walker Anderson, of Baltimore, Md.
Robert Joseph Andryszak, of Baltimore, Md.
Michael Francis Angel, of Verona, Pa.
Katherine Lewis Archibald, of Baltimore, Md.
Roberto Carlos Arguero, of Buenos Aires, Argentina
Stanley Virgil Ashman, of Baltimore, Md.
Diane Lee Atkins, of Vincent, Ohio
Jeremy August, of West Nyack, N. Y.
James Jonathan Bachman, of McConnelsville, Ohio
Thomas Welles Backus, of Claverack, N. Y.
Alan Nathaniel Baer, of Washington, D. C.
Ivy Sydney Baer, of Stony Brook, N. Y.
José Luis Barata, of Baltimore, Md.
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David Charles Baringer, of Canfield, Ohio
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Edmund Gill Hart, of Towson, Md., B.E. The Johns Hopkins University, 1953; M.S.E., 1955.
Terreance Harper Hart, of Glen Burnie, Md.
Dennis John Hauge, of Madison, Wis.
Henry Harrison Heath III, of Chesapeake City, Md.
Betty Smith Hefner, of Baltimore, Md.
George Byron Hewes III, of Baltimore, Md.
Rodney Wayne Hollinger, of Elkton, Md.
William Peter Hyde, of Annapolis, Md.
Mary Ann Brown Johns, of Baltimore, Md.
Elizabeth Rosenfeld Kahn, of Baltimore, Md.
Charles Richard Kappel, of Lutherville, Md.
James Edward Kaufman, of Syracuse, N. Y.
Richard Lee Kline, of Baltimore, Md.
Ronald Joseph Kodlick, of Cockeysville, Md.
Wilhelm Koenig, of Baltimore, Md.
Virginia Casey Kohan, of Baltimore, Md.
James Clifford Konitzer, of Baltimore, Md.
William Joseph Kulbacki, of Shamokin, Pa.
Ingo Alfred Lahnemann, of Timonium, Md.
Charles Joseph Liberto, of Pasadena, Md.
Frederick Barber Lowe, of York, Pa.
George Taylor Lynch, Jr., of North East, Md.
Gerard Francis Lynch, of Bradshaw, Md.

Robert Ray Manning, of Baltimore, Md., A. S. The Johns Hopkins University, 1973.
Mary Jane Rita Markiewicz, of Baltimore, Md.
Donald Wesley Marvel, of Timonium, Md.
Thomas Joseph McLaughlin, of Baltimore, Md.
Ronald Joseph Messina, of Baltimore, Md.
Elmer Preston Metz, Jr., of Baltimore, Md.
Paula Touchette Morrison, of Port Deposit, Md.
Joseph Christian Napolillo, of Glen Arm, Md.
Dean Robert Nelson, of Arnold, Md.
Franklin Delano Neukam, of Baltimore, Md.
Kenneth Joseph Nierwienski, of Baltimore, Md.
Charles Lee Orr, of Baltimore, Md.
Patericia June Parks, of Mount Storm, W. Va.
Marvin Lee Peacock, of Pasadena, Md.
Ronald Edward Pitsinger, of Baltimore, Md.
John David Rademacher, of Baltimore, Md.
David Lawrence Reidinger, of Baltimore, Md.
Marilyn Schulman Reiner, of Baltimore, Md.
Ida Ruth Samet, of Baltimore, Md.
Gordon Scharpf, Jr., of Perry Hall, Md.
Walter Bruno Schauermann, of Baltimore, Md.
Frederica Taingiu Schneidman, of Bucharest, Romania
Ritchie Ray Sebeniecher, of Baltimore, Md.
Audrey Nadine Therit Shaffer, of Hampstead, Md.
Suzanne Francisco Shipley, of Bowie, Md.
Nicholas Shust, of Glen Burnie, Md.
Robert Sterling Silva, of Baltimore, Md.
Frank Michael Silverberg, of Baltimore, Md.
Joseph Paul Sirera, of Baltimore, Md.
Charlotte Stuart Smith, of Delmar, Md.
Dennis Lee Smith, of Shrewsbury, Pa.
Ronald Clark Smith, of Baltimore, Md.
Albert Leroy Snellings, Jr., of Baltimore, Md.
William James Spann, of Dundalk, Md.
Sandra Lee Spence, of Randallstown, Md.
Jacob Richard Steinmiller, Jr., of Jarrettsville, Md.
Helen May Hauf Stepanek, of Baltimore, Md.
John Richard Sunderland, of Baltimore, Md.
Richard Thompson, of Parkton, Md.
Marvin Cornelius Trott, of Baltimore, Md.
Norma Sheila Tucker Walker, of Baltimore, Md.
Mary Jane Westheimer Weinberg, of Baltimore, Md.
Mary Eugenia West, of Bluefield, W. Va.
Barbara Selby White, of Baltimore, Md.
Thomas Joseph Wiedecker, of Owings Mills, Md.
Willie Willis Womack, of Baltimore, Md.
Stephen Philip Yeagle, of Wilmington, Del., B. A. The Johns Hopkins University, 1972.
Peter Joseph Zukauskas, of Bel Air, Md.

BACHELORS OF SCIENCE IN ENGINEERING

in The Evening College

Robert Gale Anderson, of Edgewater, Md.
William Charles Bailey, of Baltimore, Md.
Robert Eugene Barker, of Baltimore, Md., A. S. The Johns Hopkins University, 1972.
Thomas Robert Bile, of Millersville, Md.
Stanley Bogash, of Baltimore, Md.
John Francis Brailsford, of Baltimore, Md.
Michael Anthony Brennan, of Manchester, Md., A. S. The Johns Hopkins University, 1972.
Bruno Robert Centofanti, of Baltimore, Md.
Robin Alonzo Childress, of Baltimore, Md.
Donald Christopher Clarke, of Baltimore, Md.
Helmut Peter Cline, of Glen Burnie, Md.
Earl Dennis Collins, of Baltimore, Md.
Thomas Edward Frederick Conroy, of Glen Burnie, Md.
Dennis Joseph Croney, of Baltimore, Md.
Richard Kenneth Daniels, of Ellicott City, Md.
William Donald Davis, of Laurel, Md.
Frederick Jay Dexter, of Owings Mills, Md.
Keith Thomas Dixon, of Bel Air, Md.
Valiant Dzwonczyk, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1970.
William Leroy Emminger, of Annapolis, Md.
Ronald Carey Esenwine, of Timonium, Md.
Jerome Feldstein, of Baltimore, Md.
James Lawrence Fisher, of Baltimore, Md.
David Harry Friedel, of Bel Air, Md., A. S. The Johns Hopkins University, 1972.
Paul Michael Garove, of Baltimore, Md.
Edwin Jackson Geisendaffer, of Fallston, Md., A. S. The Johns Hopkins University, 1972.
Stanislaw Paul Gembicki, Jr., of Glen Burnie, Md., B. E. S. The Johns Hopkins University, 1970.
Hessam Golzari, of New Freedom, Pa.
Richard William Grimm, of Fallston, Md.
Earl Thomas Gunderson, Jr., of Baltimore, Md.
Robert Dennis Gutierrez, of Reisterstown, Md.
Ralph Edgar Harris, of Baltimore, Md.
Peter Mark Hill, of Baltimore, Md.
James Joseph Holden III, of Baltimore, Md.
Howard Thomas Hunt, of Haddonfield, N. J.
Lawrence John Kalb, of Baltimore, Md.
Thomas Alan Keiser, of Baltimore, Md.
John Kibec, of Glen Burnie, Md.
Claude Edward Kite, Jr., of Laurel, Md.
James Mitchell Krauk, of Kingsville, Md.
Charles Roger Krebs, of Joppa, Md.
Richard Strother Lancaster, of Columbia, Md.
Bruce Norwood Lenderking, of Glen Burnie, Md.
Donald Dean Lochary, of Baltimore, Md., B. S. The Johns Hopkins University, 1967.
Arthur Peirce Lohrmann, of Baltimore, Md.
Angelo Lucco Lopolito, of Lutherville, Md.
Alvaro Diaz Lozano, of Baltimore, Md.
Allen Frederick Martin, of Westminster, Md.
Dana Evans McGinnis, of Glen Burnie, Md.

Robert Anthony Meloni, of Baltimore, Md.
Dominic Michael Mezzanotte, of Rosedale, Md.
Ronald William Miksa, of Joppa, Md.
William Stewart Nash, of Baltimore, Md.
Robert Alfred Nedzel, of Hanover, Pa.
Steve Paul Noga, of Millersville, Md., B. S. The Johns Hopkins Univesrity, 1969.
Leonard Walter Nowicki, of Baltimore, Md.
Francis Joseph Otremba, of Baltimore, Md., A. S. The Johns Hopkins University, 1972.
James Anthony Palumbo, of Fairfax, Va.
Edmund Fredrick Pfeffer, of Baltimore, Md.
Thomas Warren Pfister, of Baltimore, Md.
Steven Lee Purucker, of Baltimore, Md., A. S. The Johns Hopkins University, 1973.
Richard Carville Raup, of Baltimore, Md.
Stephan Alan Reekie, of Baltimore, Md.
John Franklin Reid, of Baltimore, Md., B. S. E. The Johns Hopkins University, 1968.
Paul Y. Rickman, of Baltimore, Md.
Richard Henry Riggs, of Baltimore, Md.
Lewis Hampton Rohr, of Baltimore, Md.
Anthony Joseph Rybikowsky, Jr., of Reisterstown, Md.
John Conrad Schaefer, of Sykesville, Md.
Warren Melvin Scheinin, of Baltimore, Md.
Richard Frank Schinella, of Catonsville, Md.
Kirk Winston Schlotterbeck, of Glen Burnie, Md.
Gordon Edwin Schmier, of Glen Burnie, Md.
Donald Bertram Schuler, of Baltimore, Md.
Paul Damien Schwind, of Forest Hill, Md.
Emerson Raymond Shiloh, Jr., of Baltimore, Md.
Steve Robert Shimko, of Baltimore, Md.
David Andrew Snyder, of Baltimore, Md.
John Raymond Van Fossen, of Baltimore, Md.
Frank Joseph Votolato, of Baltimore, Md.
Chancery David Waggner, of Baltimore, Md.
Thomas Lee Watchinsky, of Baltimore, Md.
Charles DeWitte Wellmann, of Baltimore, Md.
William Daniel White, of Baltimore, Md.
Robert Charles Windham, of Baltimore, Md., A. S. The Johns Hopkins University, 1972.
James Edward Yates, of Baltimore, Md.
David Rudolph Zenker, of Baltimore, Md.
George Andrew Zubritsky, of Baltimore, Md.

MASTERS OF SCIENCE

in The Evening College

Gerald John Alsid, of Cockeysville, Md., B. S. Frostburg State College, 1967; M. Ed. The Johns Hopkins University, 1971. Education.

Lois Ann Altshuler, of Baltimore, Md., B. S. University of Maryland, 1971. Education.

Beverly Weiss Andrion, of Sykesville, Md., B. A. Towson State College, 1969. Education.

John Steven Anthony, of Baltimore, Md., B. S. University of Maryland, 1966; M. L. A. The Johns Hopkins University, 1971. Education.

Susan Jane Arnold, of Silver Spring, Md., B. A. Washington College, 1971. Computer Science.

Janice Louise Autrey, of Towson, Md., B. S. Auburn University, 1969. Education.

James Alfred Avirett, of Baltimore, Md., B. S. Lafayette College, 1971. Environmental Engineering.

Jane Frances Baer, of Ellicott City, Md., B. A. St. Francis College, 1971. Computer Science.

William Ellis Bankert, of Abingdon, Md., B. A. University of Maryland, 1972. Education.

Ilene Marcia Barder, of Washington, D. C., B. A. University of Massachusetts, 1971. Education.

John Joseph Bauer, of Baltimore, Md., A. B. Boston University, 1971. Computer Science.

John Richard Benedict, Jr., of Columbia, Md., B. S. University of Maryland, 1969. Numerical Science.

Rhona Benesch, of Baltimore, Md., B. A. University of Maryland, 1946. Education.

Mattie Satterfield Biggins, of Baltimore, Md., B. S. Coppin State College, 1963. Education.

Barbara Susan Lerner Blumberg, of Baltimore, Md., B. A. University of Denver, 1967. Education.

John Sevier Borden, Jr., of Baltimore, Md., B. S. I. E Georgia Institute of Technology, 1970. Computer Science.

Ely Mejer Braun, of Brooklyn, N. Y., B. A. Brooklyn College, 1970. Education.

Nancy Jordan Brooks, of Baltimore, Md., B. S. Towson State College, 1970. Education.

Patsy Beth Bulmash, of Baltimore, Md., B. S. University of Maryland, 1971. Education.

Bruce Orville Butz, of Bel Air, Md., B. S. Towson State College, 1970. Education.

Patrick Blair Campbell, of Sykesville, Md., M. Ed. Loyola College, 1971. Education.

Christine Melinda Cann, of Baltimore, Md., B. S. Towson State College, 1968. Education.

Arnold Purnell Cephas, of Oxon Hill, Md., B. S. Morgan State College, 1964. Numerical Science.

Vivia Louis Chang, of Baltimore, Md., M. A. Columbia University, 1968. Education.

Paul Ju Chun, of Seoul, Korea, B. S. Seoul National University, 1965. Computer Science.

John Robert Clark, of Ellicott City, Md., B. A. University of Delaware, 1971. Computer Science.

Elbert Lee Cole, Jr., of Catonsville, Md., B. S. E. E. Virginia Polytechnic Institute, 1962. Electrical Engineering.

Carolyn McCarty Collin, of Baltimore, Md., B. S. West Virginia University, 1969. Education.

John Patrick Connors, of Silver Spring, Md., B. S. Drexel University, 1970. Space Technology.

Margaret Kromkowski Counselman, of Baltimore, Md., B. A. St. Mary's College, 1971. Education.

Rodney Paul Cwiek, of Baltimore, Md., B. S. E. University of Maryland, 1967. Electrical Engineering.

Madan Mohan Das, of Silver Spring, Md., Ph. D. University of California, 1969. Numerical Science.

Dale Elliott Dawson, of Glen Burnie, Md., B. S. University of Virginia, 1972. Electrical Engineering.

Alicejean Thompson Dieffenbach, of Timonium, Md., A. B. Duke University, 1952. Education.

Moe Anthony DiPietro, of Crofton, Md., B. S. Long Island University, 1968. Space Technology.

Donald Lee Dunphy, of Baltimore, Md., B. S. Towson State College, 1971. Education.

James Owen Emanuel, of Baltimore, Md., B. S. Pennsylvania State College, 1967. Computer Science.

Jeffry Moore Finkel, of Westbury, N. Y., B. S. University of Alabama, 1971. Education.

Ann Farquhar Forbush, of Baltimore, Md., B. A. Hollins College, 1951. Education.

Marie Sockwell Francis, of Baltimore, Md., B. A. Virginia Union University, 1953; M. Ed. The Johns Hopkins University, 1970. Education.

Sharon Leigh Fulton, of Arnold, Md., B. A. University of Maryland, 1970. Education.

Samuel John Garloff, of Baltimore, Md., B. S. Mansfield State College, 1969. Education.

Howard Scotty Gehring, of Baltimore, Md., B. S. Towson State College, 1972. Education.

Patricia Corinne Gillan, of Baltimore, Md., B. A. William Smith College, 1972. Education.

Walter Paul Grabowsky, of Glenside, Pa., B. A. Lehigh University, 1958. Management Science.

Gerald Quentin Greenfield, Jr., of Columbia, Md., B. A. The Johns Hopkins University, 1974. Education.

Barbara Ann Grier, of Baltimore, Md., B. S. Morgan State College, 1970. Education.

Dorothy Virginia Jacobs Griffith, of Baltimore, Md., B. A. College of Notre Dame of Maryland, 1953. Education.

Nancy Annette Cash Gurtner, of Baltimore, Md., B. E. University of Buffalo, 1959. Education.

John Calvin Habicht, of Millersville, Md., B. S. E. The Johns Hopkins University, 1971. Computer Science.

Mary Ann Hallisey, of Lanham, Md., B. S. Towson State College, 1972. Education.

Anita Basilia Harriday, of Baltimore, Md., B. S. Morgan State College, 1972. Education.

Joan Fribush Hartge, of Glen Burnie, Md., B. A. University of Maryland, 1972. Education.

Joseph Patrick Heckl, of Ellicott City, Md., B. S. St. Bonaventure University, 1960; M. S. Stevens Institute of Technology, 1962. Numerical Science.

Aleene Passmore Hellier, of Baltimore, Md., B. S. The Johns Hopkins University, 1966. Education.

Earl Donald Henck, of Timonium, Md., B. S. E. E. Purdue University, 1953. Environmental Engineering.

Joan Marie Henry, of Timonium, Md., B. S. Towson State College, 1969. Education.

Emil Hensel, of Baltimore, Md., B. S. Columbia University, 1972. Electrical Engineering.

Robert Maurice Henshaw, of Baltimore, Md., B. S. Michigan State University, 1972. Electrical Engineering.

William Joseph Herbig, of Frederick, Md., B. S. E. Cooper Union, 1964. Electrical Engineering.

Sam Michael Hergert, of Laurel, Md., B. S. Texas Tech University, 1967. Numerical Science.

Ellen Linda Herring, of Hyattsville, Md., B. S. Drexel Institute, 1968. Numerical Science.

Donald Leslie Holmes, of Bel Air, Md., B. S. Virginia Military Institute, 1966. Environmental Engineering.

Veda Blonetha Horton, of Baltimore, Md., B. S. Towson State College, 1968. Education.

John Barrett Hotard, of Atlanta, Ga., B. A. University of Georgia, 1971. Education.

Phillip Van Hough, of White Hall, Md., B. S. Towson State College, 1972. Education.

Wayne Philip Hunt, of Baltimore, Md., B. S. Mars Hill College, 1969. Education.

David Hutton, of Baltimore, Md., B. M. A. E. University of Delaware, 1967. Environmental Engineering.

Diane Thornburg Jaklitsch, of Laurel, Md., B. A. Greensboro College, 1968. Education.

Mary Malone Johnson, of Baltimore, Md., B. A. Memphis State University, 1958. Education.

Arlene Wolfe Kalvan, of Baltimore, Md., B. S. Towson State College, 1954. Education.

Vytautas A. J. Karevicius, of Baltimore, Md., B. S. Virginia Polytechnic Institute, 1969. Computer Science.

Marilyn Karp, of St. Louis, Mo., B. S. University of Missouri, 1971. Education.

Naseem Ahmad Khan, of Baltimore, Md., M. A. University of Panjah, 1967. Education.

Veronica Leni Klebinder, of Baltimore, Md., B. A. University of Maryland, 1971. Education.

James Edmund Klekotka, of Glen Burne, Md., B. S. University of Massachusetts, 1967. Electrical Engineering.

Edward George Klimchak, of Baltimore, Md., B. S. Villanova University, 1968. Applied Physics.

Edward Francis Kness, of Sparks, Md., B. S. E. University of Notre Dame, 1960. Management Science.

Shirley Elaine Kossler, of Jacksonville, Fla., B. A. University of Maryland, 1968; M. A., 1970; M. Ed. The Johns Hopkins University, 1971; C. A. S., 1972.

Michael Bernard Laing, of Woodbridge, Va., B. S. Xavier University, 1963. Numerical Science.

Sydney Ann Lauer, of Greenbelt, Md., B. A. Westminster College, 1971. Education.

Robert Craig Leedom, of Ellicott City, Md., B. E. S. The Johns Hopkins University, 1967. Electrical Engineering.

James David Leiby, of Owings Mills, Md., B. S. State University College at Oswego, N. Y., 1970. Education.

Ethel Sharp Linney, of Baltimore, Md., B. S. Coppin State College, 1971. Education.

Joseph Samuel Lombardo, of Annapolis, Md., B. S. University of Illinois, 1969. Electrical Engineering.

Paul Conrad Long, of Riva, Md., B. S. E. E. Lafayette College, 1958; M. S. (Management Science) The Johns Hopkins University, 1971. Computer Science.

Kathleen Ferguson Lynch, of Baltimore, Md., B. A. College of Our Lady of the Elms, 1971. Education.

John Dennis Lyons, of Glen Burnie, Md., B. A. University of Kentucky, 1969. Education.

Kay Harriet Marks, of Randallstown, Md., B. S. Towson State College, 1969. Education.

Ardin Herman Marschel, of Buffalo, Minn., B. S. University of Minnesota, 1969. Physics.

Robert Martinez, of Cockeysville, Md., B. S. Union College, 1967. Computer Science.

Richard William Mathews, of Brookeville, Md., B. S. E. The Johns Hopkins University, 1970. Computer Science.

Timothy Edward McAdams, of Laurel, Md., B. E. E. University of Detroit, 1969. Electrical Engineering.

Uldis Valdemars Miervaldis, of Kalamazoo, Mich., B. S. Western Michigan University, 1970. Computer Science.

Siegfried James Mitic, of Ellicott City, Md., B. E. McMaster University, 1963. Electrical Engineering.

Patricia Allyn Moore, of Reisterstown, Md., B. A. Western Maryland College, 1970. Management Science.

Philip Joseph Morrison, of Port Deposit, Md., B. A. College of the Holy Cross, 1969. Physics.
On the Number of Dimensions of Space.

Bruce Lawrence Morse, of Laurel, Md., B. A. Boston University, 1965; M. A. University of Delaware, 1967. Management Science.

Cedric Takumi Nakamura, of Columbia, Md., B. A. Marietta College, 1966. Computer Science.

Larry Jay Needle, of Baltimore, Md., B. A. University of Maryland, 1969. Education.

George Paul Neitzel, Jr., of Forest Hill, Md., B. S. Rollins College, 1969. Numerical Science.

Samuel John Newman, of Albany, N. Y., B. S. Union College, 1957. Physics.

Audrey Ann Owings, of Baltimore, Md., B. A. Houghton College, 1971. Education.

Arthur Kern Parker III, of Linthicum Heights, Md., B. S. Davidson College, 1968. Computer Science.

Priscilla Greene Peek, of Baltimore, Md., B. S. Morgan State College, 1969. Education.

Martha Dunlop Petrovich, of Columbia, Md., B. S. California State College, 1969. Education.

Mani Korah Pulimood, of Baltimore, Md., B. S. Kerala University, 1964. Management Science.

Janice Alice Rajewski, of Baltimore, Md., B. S. Towson State College, 1971. Education.

Nancy Dee Rathbone, of Laurel, Md., B. A. University of New Hampshire, 1970. Numerical Science.

Robert Irving Reed, of Edgewater, Md., B. S. E. E. Union College, 1942. Management Science.

Richard Ronald Rekus, of Laurel, Md., B. S. E. Pennsylvania State University, 1969. Electrical Engineering.

Patrick Rivalan, of Gaithersburg, Md., B. S. E. E. City College of New York, 1966. Electrical Engineering.

Justine Forbes Rives, of Baltimore, Md., B. A. Denison University, 1969; M. A. T. The Johns Hopkins University, 1970. Education.

Alan Hardy Rowberg, of Spokane, Wash., B. S. Pacific Lutheran University, 1966; M. D. University of Washington, 1970. Computer Science.

William Hughes Rowe, Jr., of Columbia, Md., B. S. M. E. Drexel Institute of Technology, 1958. Management Science.

John Gary Rozema, of Silver Spring, Md., B. S. E. E. University of Michigan, 1969. Electrical Engineering.

Patrick Joseph Ryan, of Laurel, Md., B. S. Maryland State Teacher's College, 1961. Electrical Engineering.

Mary Elizabeth Salchunas, of Baltimore, Md., B. S. The Johns Hopkins University, 1969. Education.

Lawrence Kenneth Saunders, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1964. Computer Science.

Rowland Lee Savage, of Baltimore, Md., B. A. Mount St. Mary's College, 1967. Education.

Eric Ralph Sayenga, of Ann Arbor, Mich., B. S. The Johns Hopkins University, 1972. Education.

Steven Michael Schaaf, of Columbia, Md., B. S. Michigan State University, 1970. Computer Science.

Raymond Charles Scheck, of Baltimore, Md., M. A. Catholic University of America, 1970. Education.

Marcia Wiley Scheflen, of Baltimore, Md., B. S. Syracuse University, 1967. Education.

Danny Alfred Schimelpfenig, of Glen Burnie, Md., B. S. E. E. Oregon State University, 1967. Electrical Engineering.

John Joseph Schlee, Jr., of Edgewood, Md., B. S. Northeastern University, 1969. Management Science.

Sylvia Shilmover Schneider, of Baltimore, Md., B. S. Towson State College, 1953. Education.

Terry Jay Scholle, of Baltimore, Md., B. S. E. E. University of Akron, 1969. Electrical Engineering.

Edward Stoner Shaffer, of Arnold, Md., B. A. The Johns Hopkins University, 1966. Numerical Science.

Wallace Benjamin Shepherd, of Laurel, Md., B. S. E. E. Case Western Reserve University, 1968. Electrical Engineering.

Janice Smith Simon, of Glenside, Pa., B. S. Temple University, 1971. Education.

John H. Sinclair, of Baltimore, Md., B. S. Loyola College, 1970. Applied Physics.

Stuart Mark Singer, of Reisterstown, Md., B. F. A. Maryland Institute, 1971. Education.

Ainslie Harrington Smith, of Millburn, N. J., B. S. Syracuse University, 1971. Education.

June Francis Soud, of Baltimore, Md., M. A. Presbyterian School of Christian Education, 1960. Education.

Merlyn Michael Soukup, of Laurel, Md., B. S. George Washington University, 1967. Applied Physics.

Bruce John Spaulding, of Timonium, Md., B. S. United States Naval Academy, 1968. Applied Physics.

Karla Louise Sperry, of Baltimore, Md., B. A. Illinois Wesleyan University, 1972. Education.

Robert Allen Sproat, of Pittsburgh, Pa., B. S. University of Pittsburgh, 1970. Electrical Engineering.

John Hunter Staples, of Silver Spring, Md., B. S. E. E. Virginia Polytechnic Institute, 1961. Computer Science.

Margaret Carol Rada St. Cyr., of Catonsville, Md., B. S. N. University of Maryland, 1972. Education.

Theresia Stern, of Baltimore, Md., B. S. University of Maryland, 1970. Education.

Janet Edith Stidman, of Baltimore, Md., B. A. Washington College, 1972. Education.

Diane Eleanor Stine, of Lutherville, Md., A. B. Barnard College, 1955. Education.

Susan Ridgway Haydock Stitt, of Glen Burnie, Md., B. A. University of Delaware, 1969. Education.

Alan Christopher Strauss, of Alexandria, Va., B. S. Colorado School of Mines, 1967. Numerical Science.

Jagan Nath Sud, of Gaithersburg, Md., B. S. Punjab College, 1962; M. S. Roorkee University, 1964. Computer Science.

Berenda Sutton, of Baltimore, Md., B. A. Morgan State College, 1972. Education.

Allen Wesley Tate, Jr., of Harmans, Md., B. E. S. The Johns Hopkins University, 1971. Electrical Engineering.

Daniel Louis Thomas, of Westminster, Md., B. S. University of Maryland, 1965. Electrical Engineering.

Joanna Marie Thomas, of Greenville, S. C., B. A. Case Western Reserve University, 1965. Education.

Norman Westerman Thurston, of Olney, Md., B. E. E. Clarkson College of Technology, 1963. Electrical Engineering.

Steven Ernest Traisman, of Madison, Wis., B. S. E. University of Wisconsin, 1969; M. S. E., 1969. Environmental Engineering.

Edward Lee True, of Memphis, Tenn., B. S. Christian Brothers College, 1969. Computer Science.

Gordon Daniel Tyler, Jr., of Ellicott City, Md., B. S. Massachusetts Institute of Technology, 1970. Computer Science.

Thomas Edward Vasold, of Baltimore, Md., B. S. Towson State College, 1967. Numerical Science.

Jerome Robert Vetter, of Silver Spring, Md., B. S. St. Louis University, 1960. Applied Physics.

William Albert Vogel, of Silver Spring, Md., B. S. (Civil Engr.) University of Maryland, 1951; B. S. (Meteorology) Pennsylvania State University, 1953. Applied Physics.

Sharon June Wagner, of Baltimore, Md., B. A. Towson State College, 1971. Education.

Ann M. Walsh, of Glen Burnie, Md., B. S. Duquesne University, 1965. Education.

Howard Andrew Walter, Jr., of Magnolia, N. J., B. S. St. Lawrence University, 1970. Numerical Science.

Robert Alexander Walters, of Millersville, Md., B. S. University of Pittsburgh, 1970. Electrical Engineering.

Gary Reynolds Weart, of Baltimore, Md. Education.

Robert William Wettingfeld, of Laurel, Md., B. E. E. City College of New York, 1960. Numerical Science.

Diana Jean White, of Baltimore, Md., B. S. The Johns Hopkins University, 1971. Education.

Thomas Michael Willey, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1961. Electrical Engineering.

Richard J. Wilschke, of Columbia, Md., B. A. Carleton College, 1963. Management Science.

Constance Ann Herrmann Winik, of Baltimore, Md., B. S. Towson State College, 1971. Education.

George Walter Wood, of Grand Rapids, Mich., B. E. E. Ohio State University, 1968. Electrical Engineering.

Ruth Ann Whidden Young, of Aberdeen, Md., B. A. Lycoming College, 1962. Education.

MASTERS OF EDUCATION

in The Evening College

Flora Aisenberg, of Baltimore, Md., B. A. Towson State College, 1973.

Gerard Albert Ancel, of Baltimore, Md., B. S. S. S. Loyola College, 1967.

Dorothy Schaeffer Anderson, of Ellicott City, Md., B. S. Towson State College, 1952.

Veronica Carole Anderson, of Randallstown, Md., B. A. College of Notre Dame of Maryland, 1970.

Camille Teresa Bailey, of Cockeysville, Md., A. B. Mount St. Agnes College, 1970.

Glascoe Austin Baker, of Baltimore, Md., B. S. Morgan State College, 1948.

James Robert Baker, of Bel Air, Md., B. S. E. The Johns Hopkins University, 1972.

Joseph Hartman Banner III, of Baltimore, Md., B. A. University of Maryland, 1971.

Carol Lee Toula Barndollar, of Woodbridge, Va., B. A. University of Maryland, 1968.

George Edward Bell, of Baltimore, Md., A. B. Loyola College, 1966; M. A. University of Maryland, 1968.

Helen Williams Bennett, of Towson, Md., B. A. Towson State College, 1969.

Adepu Bikshapathi, of Baltimore, Md., M. L. S. North Texas State University, 1969.

Linda Driscoll Blitz, of Baltimore, Md., B. A. Mount St. Agnes College, 1968.

Donald Lee Bosley, of Perry Hall, Md., B. S. Western Maryland College, 1958.

Bonnie Sue Mader Brandt, of Garrison, Md., B. S. The Johns Hopkins University, 1969.

Diane Marie Beck Braxton, of Timonium, Md., B. S. University of Maryland, 1971.

Sharon Lee Bristol, of Morganton, N. C., B. S. University of North Carolina, 1964.

Lorraise Dorothy Brooks, of Columbia, Md., B. S. Coppin State College, 1966.

Frederic Ira Brown, of Baltimore, Md., A. A. Essex Community College, 1971; B. S. Towson State College, 1972.

Joyce Ann Brown, of Baltimore, Md., B. S. Towson State College, 1968.

Doris Lorraine Kay Bryson, of Glen Burnie, Md., B. A. University of Maryland, 1972.

Joyce Elaine Bultemeier, of Baltimore, Md., B. S. Concordia Teachers College, 1968.

Mary Coursey Burke, of Baltimore, Md., B. S. Morgan State College, 1968.

Nancy Jean Buterbaugh, of Baltimore, Md., B. S. Frostburg State College, 1970.

Barbara Evelyn Carr, of Reisterstown, Md., B. A. Longwood College, 1969.

Ilene Lee Kalis Cohen, of Baltimore, Md., B. A. American University, 1969.

Richard Wayne Cunningham, of Joppatowne, Md., B. G. S. University of Nebraska, 1970.

John Bell Daniels, Jr., of Baltimore, Md., B. S. Howard University, 1956.

Lucy Green Davis, of Joppa, Md., B. S. St. Paul's College, 1969.

Felicisima Pascual deGuzman, of Baltimore, Md., B. S. The Philippine Women's University, 1958.

Lawrence Bernard Dietrich, of Glen Arm, Md., B. A. St. Joseph College, 1969.

Antonia Camille Dubicki, of Columbia, Md., B. S. Towson State College, 1966.

Mary Ann Emhof, of Baltimore, Md., B. S. Syracuse University, 1970.

Ruth Wolfson Feller, of Randallstown, Md., A. B. Hunter College, 1952.

Deliphenia Audrey Ferguson, of Baltimore, Md. B. S. Coppin State College, 1967.

Jeanette Paschal Fichter, of Laurel, Md., B. A. University of Nebraska, 1971.

Betty Faye Cornblatt Fink, of Baltimore, Md., B. A. University of Maryland, 1954.

Barbara May Finnegan, of Chestertown, Md., B. A. Washington College, 1965.

Mozelle McAllister Fisher, of Baltimore, Md., B. S. Winston-Salem State College, 1957.

Susan Freed Friedman, of Reisterstown, Md., B. S. University of Maryland, 1970.

Lois Jordan Fromyer, of Severna Park, Md., B. A. University of Utah, 1947.

Karen Lee Funk, of Baltimore, Md., B. S. The Johns Hopkins University, 1971.

Jeannette Brooks Garrett, of Baltimore, Md., B. S. Coppin State College, 1965.

Evelyn Kansler Gass, of Severna Park, Md., B. A. Towson State College, 1971.

Armand Francis Girard, of Baltimore, Md., B. A. The Johns Hopkins University, 1961.

Marsha Mills Goffus, of Baltimore, Md., B. A. Towson State College, 1971.

Frances Baum Goldman, of Baltimore, Md., B. S. University of Maryland, 1969.

Joanne Feldstein Gordon, of Newport News, Va., B. S. University of Maryland, 1969.

Stella Gabrielson Gracey, of Baltimore, Md., B. S. Towson State College, 1965.

Charlotte Elizabeth Hunter Graham, of Baltimore, Md., B. A. Salem College, 1970.

Regina Irene Graham, of Morristown, N. J., B. S. Seton Hall University, 1971.

Mary Harrison Green, of Spartanburg, S. C., B. S. Coppin State College, 1968.

Diana Grosman, of Baltimore, Md., B. A. Towson State College, 1969.

Delmas Ivan Gruver, of Cockeysville, Md., A. B. Franklin and Marshall College, 1947; M. L. A The Johns Hopkins University, 1966.

Eleanora Thelma Clark Hall, of Baltimore, Md., B. A. Morgan State College, 1972.

Enriqueta Abad Hallare, of Manila, Philippines, B. S University of Santo Tomas, 1951; M. A. Far Eastern University, 1956.

Ida Mae Harvin Hamilton, of Baltimore, Md., B. S. Morgan State College, 1968.

Nancy Snyder Hammond, of Pikesville, Md., B. S. Towson State College, 1971.

Roland Handy, Jr., of Baltimore, Md., B. S. Coppin State College, 1967.

Edith Agnes Harris, of Baltimore, Md., A. B. Morgan State College, 1949.

Mona Rita Morrow Hartz, of Baltimore, Md., B. S. The Johns Hopkins University, 1971.

Delores Smith Harvey, of Baltimore, Md., B. S. Coppin State Teachers College, 1958.

Mary Elizabeth McManus Hearn, of Baltimore, Md., B. Ed. Duquesne University, 1951.

Timothy Edwards Hildreth, of Columbus, Ohio, B. S. Hampden-Sydney College, 1973.

Eunice Purnell Hilliard, of Baltimore, Md., B. S. Morgan State College, 1962.

Marjorie Rubin Hoffman, of Stevenson, Md., B. S. University of Maryland, 1969.

Sharon Ruth Hogg, of Baltimore, Md., B. S. Towson State College, 1964.

Kenneth Albert Hook, of Glen Burnie, Md., B. A. St. Vincent College, 1968.

Frances Ann Howard, of Baltimore, Md., B. A. Meredith College, 1964.

June Finlayson Hulbert, of Baltimore, Md., B. S. The Johns Hopkins University, 1972.

Kathlynn Hayes Jacobs, of Baltimore, Md., B. S. Coppin State College, 1961.

Evelyn Jarrett James, of Baltimore, Md., B. S. Coppin State Teachers College, 1965.

John Paul Johns, of Baltimore, Md., B. S. Coppin State College, 1966.

Helen Christine Jones, of Baltimore, Md., B. S. University of Maryland, 1969.

Gerry Dwight Jordan, of Baltimore, Md., B. S. University of Maryland, 1968.

Edward Michael Karlonis, of Baltimore, Md., B. A. King's College, 1969.

Jane Koshutko, of Baltimore, Md., B. A. Towson State College, 1967.

Lucille Alice Walters Krieg, of Towson, Md., B. S. Towson State College, 1971.

Roberta Krosin, of Baltimore, Md., B. S. University of Maryland, 1970.

Daniel Lee Kyle, of Baltimore, Md., B. S. Towson State College, 1969.

Doris Keefe Lidtke, of Baltimore, Md., B. S. University of Oregon, 1952.

Clifford Orne Low, of Cockeysville, Md., B. A. Williams College, 1969.

Janet Brenda Engelstein Lustgarten, of Randallstown, Md., B. A. McGill University, 1962.

Jacqueline Lohsen Lynch, of Baltimore, Md., B. S. S. S. Loyola College, 1967.

James Waters MacGregor, Jr., of St. Simons Isl, Ga., A. B. Columbia College, 1959; A. M. Indiana University, 1964.

Elizabeth Emerson MacQuarrie, of Baltimore, Md., B. S. University of Pennsylvania, 1967; M. S. 1971.

William H. Malesh, Jr., of Fork, Md., B. S. University of Maryland, 1969.

Rosemarie Malloy, of Linthicum Heights, Md., B. S. Edinboro State College, 1970.

Ellen L. Marks, of Randallstown, Md., B. S. University of Maryland, 1969.

Barbara Marie Marshall, of Baltimore, Md., B. S. Coppin State College, 1964; M. A. T. Antioch Graduate School, 1969.

Eunice Turner Matthews, of Baltimore, Md., B. S. Morgan State College, 1950.

James Preston Matthews, of Baltimore, Md., B. S. Morgan State College, 1951.

Mary Maxwell Matthews, of Baltimore, Md., B. M. Peabody Conservatory, 1968.

Patricia Elizabeth Zoll McGee, of Baltimore, Md., B. S. Towson State College, 1969.

Elaine Risa Desind Mellman, of Sterling, Va., B. S. Towson State College, 1968.

Arlene Janet Mendelson, of Baltimore, Md., A. B. George Washington University, 1967.

Carol Rogus Miller, of Baltimore, Md., B. S. Villa Maria College, 1970.

Nancy Morgan Mocarsky, of Glen Burnie, Md.

George Howard Moore, of Baltimore, Md., B. A. Otterbein College, 1949; S. T. B. Temple University, 1953.

Adele Louise Morales, of Baltimore, Md., B. A. Marshall University, 1969.

William Henry Morris, of Baltimore, Md., B. S. Towson State College, 1969.

Helene Neufeld, of Baltimore, Md., B. S. University of Maryland, 1971.

Genevieve Turnac Newman, of Baltimore, Md., B. F. A. University of Texas, 1952.

Fran Curva Northrup, of Cleveland, Ohio, B. S. The Johns Hopkins University, 1972.

Louise Oberholzer, of Baltimore, Md., B. S. Towson State College, 1971.

Sherry Pollack Ottenheimer, of Baltimore, Md., B. A. University of Maryland, 1971.

Emily Fitch Parris, of Silver Spring, Md., B. A. Hood College, 1968.

James Elmer Patterson, Jr., of Baltimore, Md., B. S. Towson State College, 1966.

Marian Magdalen Petchik, of Baltimore, Md., A. B. Immaculata College, 1970.

Estelle Levine Pollock, of Baltimore, Md., B. A. University of Maryland, 1950.

Elaine Gail Prentis, of Baltimore, Md., B. A. University of Maryland, 1970.

John Peter Prevas, of Monkton, Md., M. A. University of Maryland, 1969.

Judy Hurley Puckett, of Columbia, Md., B. S. Virginia Polytechnic Institute, 1969.

Agnes Smith Purnell, of Pikesville, Md., B. A. Morgan State College, 1966.

Mildred Burton Pyles, of Baltimore, Md., B. S. University of Maryland, 1948.

Mary Elizabeth Rankin, of Baltimore, Md., B. S. Towson State College, 1967.

Barbara Jane Ratigan, of Towson, Md., B. A. Hood College, 1968.

Phyllis Ann Rice, of Perry Hall, Md., B. S. Salisbury State College, 1965.

Raymond Roy Richardson, Jr., of Bel Air, Md., B. S. Frostburg State College, 1968.

Rosalind Volotta Rivera, of Annapolis, Md., B. S. The Johns Hopkins University, 1971.

Annie Lee Roberts, of Baltimore, Md., A. B. Morgan State College, 1948.

Betty Baines Robertson, of Baltimore, Md., B. S. Radford College, 1957.

Wendy Parker Robinson, of Baltimore, Md., B. S. Bennett College, 1965.

Kathleen Acunto Santacroce, of Baltimore, Md., B. S. St. Francis College, 1970.

Barbara Lane Sarnecki, of Ellicott City, Md., B. S. Towson State College, 1961.

Nancy Smith Schkloven, of Baltimore, Md., B. S. Towson State College, 1970.

Gary Allan Schreiber, of Hydes, Md., B. A. The Johns Hopkins University, 1967.

William Simpson Scott, Jr., of Baltimore, Md., B. S. Georgia Institute of Technology, 1957.

Marla Nan Shapiro, of Baltimore, Md., B. S. University of Maryland, 1969.

Robyne Ilene Lieberman Shapiro, of Baltimore, Md., B. S. University of Maryland, 1968.

David Lee Shenton, of Cockeysville, Md., B. S. Towson State College, 1970.

Freda Silberminz, of Baltimore, Md., B. A. University of Maryland, 1970.

Linda L. Silverman, of Baltimore, Md., B. S. Towson State College, 1969.

John Charles Simon, Jr., of Baltimore, Md., B. A. University of Maryland, 1966; M. L. A. The Johns Hopkins University, 1972; C. A. S., 1973.

Hanaa Noah Sirageldin, of Towson, Md., B. A., Cairo University, 1957.

Carolan Joan Smith, of Baltimore, Md., B. S. Villa Maria College, 1970.

Edna Heinz Spilman, of Pasadena, Md., B. S. American University, 1967.

Robert Alvin Stagmer, of Baltimore, Md., B. A. Loyola College, 1971.

Sharon Brooker Stewart, of Columbia, Md., B. A. Skidmore College, 1968.

Patricia Graves Stumpfel, of New Windsor, Md., B. S. Towson State College, 1970.

Brenda Louise Keisler Sullivan, of Baltimore, Md., B. A. University of North Carolina, 1967.

Marion Steven Szymanski, of Rosedale, Md., B. S. Towson State College, 1969.

Gloria Bias Tillery, of Baltimore, Md., B. A. Morgan State College, 1965.

Patrick Charles Toole, of Baltimore, Md., B. S. University of Maryland, 1967.

JoAnn Carol Velten, of Baltimore, Md., B. S. Frostburg State College, 1966.

Ondra Lee Walker, of Baltimore, Md., B. S. Tuskegee Institute, 1969.

Judith Fisher Walls, of Columbia, Md., B. S. University of Maryland, 1970.

Peter Warschawski, of Basel, Switzerland, B. A. The Johns Hopkins University, 1969; M. A., 1974.

Delores Doucette Watkins, of Baltimore, Md., B. S. Grambling College, 1955.

Shirley Marie Watkins, of Baltimore, Md., B. S. Morgan State College, 1968.

Doris Ann Weaver, of Towson, Md., A. B. Mount St. Agnes College, 1962.

Jo-Ann Margaret Mullican Weber, of Baltimore, Md., B. S. University of Maryland, 1969.

Sharon Sachs Weiner, of Baltimore, Md., A.A. Baltimore Junior College, 1969; B. S. University of Maryland, 1971.

William Pernell Wentworth, of Millersville, Md., B. S. Frostburg State College, 1966.

Roland Wayne White, of Baltimore, Md., B. A. University of Richmond, 1964; S. T. B. Wesley Theological Seminary, 1967.

David Curt Williams, of Riva, Md., A. B. Wilkes College, 1969.

Sandra Kay Sanders Winkler, of Baltimore, Md., B. S. Towson State College, 1968.

Elizabeth Boardley Young, of Baltimore, Md., B. S. Coppin Teachers College, 1946.

Arlette Zinn, of Baltimore, Md., B. S. University of Maryland, 1969.

Geraldine Elizabeth Zinsmeister, of Baltimore, Md., B. A. Seton Hill College, 1970.

MASTERS OF LIBERAL ARTS

in The Evening College

Lorraine Galumbeck Aaronson, of Baltimore, Md., A. B. Goucher College, 1948.

Margaret Mary Altoff, of Littlestown, Pa., A. B. Mount St. Agnes College, 1969.

Janis Margaret Amrhein, of Baltimore, Md., B. A. Towson State College, 1969.

Patricia Baldwin Andrews, of Columbia, Md., B. A. Radcliffe College, 1949; M. S. L. S. Drexel University, 1966.

Richard Ernest Bavaria, of Towson, Md., B. A. Towson State College, 1970.

Theresa Marie Benfield, of Baltimore, Md., B. A. St. Joseph College, 1965.

Kathleen Teufel Schmid Benicewicz, of Baltimore, Md., B. A. Towson State College, 1971.

Virginia Sayers Berlin, of Baltimore, Md., B. A. DePauw University, 1968.

Gary Dean Blankenburg, of Jarrettsville, Md., B. S. Illinois State University, 1963; M. S., 1965.

Sheila Blitz, of Owings Mills, Md., B. S. Towson State College, 1965.

Richard Stephen Bojanowski, of Joppa, Md., B. S. The Johns Hopkins University, 1968.

Theodore Joseph Booth, of Towson, Md., B. A. Marshall College, 1964.

Samuel Sylvester Bowen, Jr., M. S. Morgan State College, 1971.

Patrick Leo Bradley, of Baltimore, Md., B. S. Pennsylvania State University, 1970.

David Dean Branch, of Baltimore, Md., A. B. Morgan State College, 1964.

Ilene Zetlin Brave, of Baltimore, Md., B. A. University of Maryland, 1968.

Iris Barbara Brodnick, of Baltimore, Md., B. A. University of Maryland, 1970.

Linda Jane Erdman Brody, of Columbia, Md., B. A. Queens College, 1968.

Carole Anderson Bullen, of Falls Church, Va., B. A. University of Maryland, 1965.

Charlotte Anne Carey, of Baltimore, Md., B. S. Loyola College, 1955; M. A. Catholic University, 1966.

Susan Ann Cheesman, of Baltimore, Md., B. A. Towson State College, 1968.

Carol Owen Cole, of Chicago, Ill., B. S. University of Delaware, 1970.

Diane Collector, of Baltimore, Md., B. A. Hood College, 1970.

Carol Ann Cox, of Baltimore, Md., B. A. Towson State College, 1963.

David Lynn Cox, of Baltimore, Md., B. A. Indiana University, 1969.

Eleanor Pinault Dean, of Baltimore, Md., B. S. Towson State College, 1950.

Stephen Gerard Devlin, of Baltimore, Md., B. A. La Salle College, 1967.

Donald Stewart Dickson, of Baltimore, Md., M. S. Columbia University, 1970.

Thomas Edwin DiLaura, of Baltimore, Md., B. S. Towson State College, 1971.

Ann Posey Egerton, of Baltimore, Md., B. S. The Johns Hopkins University, 1968.

Linda Margaret Engwall, of Bel Air, Md., B. A. Miami University, 1964.

Sharon Ann Euart, of Towson, Md., A. B. Mount St. Agnes College, 1966.

Gerald Lee Everett, of Millersville, Md., B. A. Missouri Valley College, 1966.

Linda Diane Farrell, of Baltimore, Md., B. A. Illinois Wesleyan University, 1971.

Ronald Joseph Ferger, of Glen Burnie, Md., B. S. Frostburg State College, 1969.

Thomas Leo Flynn, of Linthicum, Md., B. A. St. Ambrose College, 1966.

Jeannette Bianchi Fogarty, of Lemoyne, Pa., B. S. Millersville State College, 1970.

Arlene Sandra Ford, of Baltimore, Md., B. A. Maryville College, 1962.

Barbara Douville Frazier, of Timonium, Md., B. S. The Johns Hopkins University, 1967.

Geoffrey Lee Fuller, of Baltimore, Md., B. S. The Johns Hopkins University, 1967.

Dorothy Ellen Gallant, of Baltimore, Md., B. A. University of Rochester, 1942.

Mary Catherine Shartle Galotto, of Rockville, Md., A. B. College of Notre Dame of Maryland, 1964.

Katharine Gregory Gelder, of Havre De Grace, Md., B. S. Towson State College, 1964.

Richard Allen Gelfond, of Baltimore, Md., B. S. University of Tulsa, 1952.

Raymond Joseph Glenn, of Woodbine, Md., B. A. University of Maryland, 1961.

William Charles Gonce, of Baltimore, Md., B. S. Mount St. Mary's College, 1967.

Chapman Perico Gonzalez III, of Baltimore, Md., B. Mus. Peabody Institute, 1969.

Edna Caslin Goodall, of Cockeysville, Md., B. S. Towson State College, 1950.

David Jack Gorrell, of Baltimore, Md., B. S. Towson State College, 1966.

Sharon Marie Greensfelder, of Baltimore, Md., B. A. Towson State College, 1970.

Robert Carl Grimm, of Severna Park, Md., B. S. Frostburg State College, 1966.

Barbara Ann Gutoski, of Glen Burnie, Md., B. A. Mercyhurst College, 1969.

Kathy Louise Hall, of Baltimore, Md., B. A. Towson State College, 1968.

Eric Christian Hallengren, of Baltimore, Md., B. S. University of Maryland, 1967.

David Edwards Harley, of McDonogh, Md., B. A. Oberlin College, 1966.

Cornelia Esther Harper, of Baltimore, Md., B. A. Wellesley College, 1933.

Lane Schofield Hart IV, of Columbia, Md., M. A. Yale University, 1951.

Lawrence David Hart, of Baltimore, Md., B. A. University of Maryland, 1968.

Lee Louis Hartman, of Baltimore, Md., B. S. University of Maryland, 1969; M. A. The Johns Hopkins University, 1971.

Joanne McNeil Hayes, of Marlboro, Vt., B. S. University of Wisconsin, 1967.

Mary Anne Heckwolf, of Baltimore, Md., A. B. Mount St. Agnes College, 1970.

Sally Anne Helm, of Catonsville, Md., B. A. College of Notre Dame of Maryland, 1972.

Lita Gartner Henck, of Timonium, Md., B. S. Purdue University, 1953.

Elizabeth Sullivan Hoffman, of Cockeysville, Md., B. A. Western Maryland College, 1970.

Michael William Hogan, of Laurel, Md., B. A. Ohio State University, 1970.

Andrew Jay Howell, of Port Deposit, Md., B. S. The Johns Hopkins University, 1972.

Elizabeth Louise Huesman, of Baltimore, Md., B. A. University of Maryland, 1970.

Diane Barbara Fine Jacobs, of Baltimore, Md., B. A. Towson State College, 1971.

Lisa Stefanon Keir, of Owings Mills, Md., B. A. Gettysburg College, 1968.

Rhae Emerson Kelley, of Baltimore, Md., B. S. The Johns Hopkins University, 1972.

Thomas Preston Kelley, of Catonsville, Md., B. A. University of Maryland, 1965.

Joan Fowler Kinsey, of Ellicott City, Md., B. S. Towson State College, 1968.

Cenap Remzi Kiratli, of Baltimore, Md., B. A. University of Svestov, Bulgaria, 1948.

Harold Dean Kniceley, of Centreville, Md., A. B. Fairmont State College, 1966.

Mark Alan Kohn, of Baltimore, Md., B. A. Loyola College, 1971.

Terrence Allan Leef, of Baltimore, Md., B. A. Defiance College, 1971.

Nancy Hubbard LeMar, of Baltimore, Md., B. S. Towson State College, 1969.

Iris Joan Lepley, of Baltimore, Md., B. A. Towson State College, 1969.

Gerald Edward Lester, of Baltimore, Md., B. A. University of Maryland, 1972.

Ervin Theodore Levin, of Baltimore, Md., B. A. University of Maryland, 1961; J. D. University of Maryland School of Law, 1969.

Susan Carol Jaskulsky Levin, of Baltimore, Md., B. A. University of Maryland, 1970.

Frances Sumers Levy, of Baltimore, Md., B. A. University of Maryland, 1968.

George Demetrios Lintzeris, of Baltimore, Md., B. A. University of Maryland, 1971.

Carol Ann Maccini, of Baltimore, Md., B. S. Boston College, 1964.

Ivana Obst Martire, of Baltimore, Md., A. B. Connecticut College for Women, 1966.

Frank Ebaugh Mason, Jr., of Easton, Md., B. S. The Johns Hopkins University, 1965.

Ronald Ray Massey, of Aberdeen, Md., A. B. Salisbury State College, 1969.

Michael Dennis McGraw, of Erie, Pa., B. A. St. Mary's Seminary and University, 1971.

Margaret Stanley McLaughlin, of Towson, Md., A. B. College of Notre Dame of Maryland, 1964.

Beth Cooper McNamara, of Timonium, Md., B. A. Ohio Wesleyan University, 1971.

Linda Louden Meding, of Baltimore, Md., A. B. Goucher College, 1971.

William Petersen Metzger, of Baltimore, Md., B. A. Trenton State College, 1963.

Carol Ann Fisch Miller, of Baltimore, Md., B. S. The Johns Hopkins University, 1968.

Deanna Pilzer Miller, of Baltimore, Md., A. B. Goucher College, 1961.

Lynda Jean Smith Mitic, of Ellicott City, Md., B. A. McMaster University, 1964.

Joseph Richard Morgan, of Baltimore, Md., B. F. A. Richmond Professional Institute, 1952.

Anne Lonergan Murphy, of Bethesda, Md., B. Ed. Rhode Island College, 1963.

Jane Clinton Nash, of Stevenson, Md., B. A. Brown University, 1971.

Dorothea Lorraine Newnam, of Baltimore, Md., B. A. Chestnut Hill College, 1964.

Marguerite Braceland Nussbaum, of Baltimore, Md., B. S. The Johns Hopkins University, 1968.

Saul Benson Offit, of Lutherville, Md., B. A. The Johns Hopkins University, 1956.

John Joseph O'Sullivan, of Darlington, Md., B. A. Villanova University, 1954; M. A. Catholic University of America, 1960.

Reba Neukom Page, of Baltimore, Md., A. B. Washington University, 1964.

Kenneth Francis Pearce, of Laurel, Md., B. A. University of Pittsburgh, 1969.

Carl Barry Pepersack, of Baltimore, Md., B. S. Towson State College, 1966.

Janice Ann Piccinini, of Cockeysville, Md., B. S. Frostburg State College, 1967.

C. Edward Pritts, of Annapolis, Md., B. A. Frostburg State College, 1968.

Barbara Lou Ripp, of Bel Air, Md., B. S. Miami University, 1963.

William Norbert Rock, of Baltimore, Md., A. B. University of Pittsburgh, 1939.

Barbara Ann Russo, of Baltimore, Md., B. S. Towson State College, 1970.

Milton Foster Saulsbury, of Peapack, N. J., B. S. Towson State College, 1961.

Joanne Rose Collier Schenk, of Timonium, Md., A. B. College of Notre Dame of Maryland, 1966.

John Charles Schmidt, of Baltimore, Md., B. A. The Johns Hopkins University, 1950.

Kathleen Anne Sears, of Camp Hill, Pa., B. A. College of Notre Dame of Maryland, 1970.

Joan Louise Seidman, of Baltimore, Md., B. A. American University, 1969.

Maureen Elsasser Sheehan, of Baltimore, Md., B. S. College of Mount St. Vincent, 1970.

Dora Light Simons, of Baltimore, Md., B. A. University of Maryland, 1969.

Earl Jones Smith, of Baltimore, Md., B. A. University of North Carolina, 1969.

Lucille Jackson Smith, of Washington, D. C., B. S. University of Virginia, 1970.

Donnadine Dasher Spilman, of Baltimore, Md., B. S. Towson State College, 1966.

James Andrew Sullivan, of Potomac, Md., A. B. West Virginia University, 1964.

Philip Wesley Tawes, Jr., of Columbia, Md., B. A. University of Maryland, 1970.

Charles Paul Toth, of Baltimore, Md., B. A. University of Pittsburgh, 1969.

James Harrison Troy, of Randallstown, Md., B. A. Morehouse College, 1960.

Judith Ann Taylor Vogel, of Columbia, Md., B. A. University of Pittsburgh, 1963.

Jerry Jackson Wall, of Reisterstown, Md., A. B. University of Georgia, 1966.

Phylis Kramer Welsh, of Randallstown, Md., B. A. Marymount College, 1962.

Sevalyn Hill White, of Baltimore, Md., B. S. Educ. West Virginia College, 1965.

Rose Christine Wiggins, of Baltimore, Md., B. S. Morgan State College, 1968.

Margaret Klein Winters, of Crofton, Md., B. S. Dickinson College, 1968.

Mary Elizabeth Witkavitch, of Fairfield, Conn., B. A. Seton Hill College, 1970.

Robin Joseph Zee, of Glen Arm, Md., B. S. The Johns Hopkins University, 1952.

MASTERS OF ADMINISTRATIVE SCIENCE

in The Evening College

Arthur Berlin, of Rockville, Md., B. C. E. City College of New York, 1959; J. D. American University, 1965.

George H. Bernstein, of Baltimore, Md., A. B. Dickinson College, 1959.

Alfred David Calabria, of Edgewood, Md., B. S. Drexel University, 1970.

Gary Howard Collison, of Arbutus, Md., M. C. E. Catholic University of America, 1971.

Norman John Fosler, of Ellicott City, Md., B. S. (Mathematics) The Johns Hopkins University, 1963; B. S. (Psychology), 1968.

Richard Joseph Gonzalez, of Baltimore, Md., B. S. Towson State College, 1968.

John Collins Harvey, of Bethesda, Md., M. D. The Johns Hopkins University, 1947; M. L. A., 1968.

Mark Alan LaBrecque, of Waterbury, Conn., B. A. Boston College, 1971.

David Harry Lambert, of Baltimore, Md., B. S. University of Pittsburgh, 1968.

Wendell Byrd Leimbach, of Baltimore, Md., B. S. The Johns Hopkins University, 1971.

Martha Moore Makosky, of Westminster, Md., M. L. S. University of Maryland, 1968.

Robert Sherman McKeen, of Randallstown, Md., B. S. E. (Mech. Engr.) The Johns Hopkins University, 1968; B. S. E. (Ind. Engr.), 1970.

John Randolph Miller, of Timonium, Md., A. B. The Johns Hopkins University, 1966; M. Ed., 1969.

Douglas Kent Pierson, of Woodlawn, Md., M. A. University of Delaware, 1969.

Joseph Edward Sanchez, Jr., of Columbia, Md., B. S. B. A. Georgetown University, 1971.

CERTIFICATES OF ADVANCED STUDY

in The Evening College

William Daniel Alexander, of Baltimore, Md., M. S. Morgan State College, 1972. Education.

Fannie Elzena Chester Alston, of Baltimore, Md., M. A. Pennsylvania State University, 1955. Education.

Betty Taksar Beiner, of Randallstown, Md., A. B. Goucher College, 1948; M. Ed. The Johns Hopkins University, 1952. Education.

Eileen Ruth Borris, of White Plains, N. Y., M. A. Columbia University, 1972. Education.

Nancy Jane Cavey, of Baltimore, Md., M. Ed. Loyola College, 1971. Education.

Beverly Berghaus Chico, of Baltimore, Md., A. B. Boston College, 1962; M. L. A. The Johns Hopkins University, 1965. Liberal Arts.

Raymond Edward Clarke, of Chestertown, Md., M. Ed. Northeastern University, 1965. Education.

Vaughn Dana Crowl, of Hagerstown, Md., B. S. Frostburg State College, 1968; M. Ed. The Johns Hopkins University, 1972. Education.

Phillip James Cunningham, of Baltimore, Md., M. A. St. Paul's College, 1955; M. L. A. The Johns Hopkins University, 1970. Liberal Arts.

James John D'Amario, of Bel Air, Md., M. S. University of Toledo, 1963. Education.

James Joseph Dees, of Bel Air, Md., M. Ed. College of William and Mary, 1970. Education.

Frederick Paul Deverse, of Pasadena, Md., B. A. Gannon College, 1964; M. Ed. The Johns Hopkins University, 1972. Education.

Frances Louise Easterling, of Baltimore, Md., B. S. Jackson State College, 1965; M. A. Morgan State College, 1966. Liberal Arts.

Patricia Carolyn Hiers Fagan, of Laurel, Md., B. S. Stetson University, 1958; M. L. A. The Johns Hopkins University, 1971. Liberal Arts.

Melvin Gant, of Jacksonboro, S. C., B. S. Coppin State College, 1967; M. Ed. Loyola College, 1969. Education.

Arthur Wolfgang Heigl, of Baltimore, Md., B. A. Loyola College, 1970; M. L. A. The Johns Hopkins University, 1972. Liberal Arts.

William Barron Hill, of Baltimore, Md., M. Ed. Coppin State College, 1970. Education.

Marjorie Eloise Newman Hunt, of Baltimore, Md., B. S. Coppin State College, 1964; M. Ed. The Johns Hopkins University, 1970. Education.

Sara Jenkins, of Baltimore, Md., B. A. Florida State University, 1965; M. A. University of North Carolina, 1968. Liberal Arts.

Irene Dixon Johnson, of Baltimore, Md., B. A. Howard University, 1954; B. S. Coppin State Teachers College, 1961; M. Ed. The Johns Hopkins University, 1968. Education.

Johnnie Edward Jowers, of Baltimore, Md., M. S. North Carolina College of Durham, 1959. Education.

Regina Ethel Blackburn KaiKai, of Parkville, Md., B. S. Morgan State College, 1968; M. S., 1970. Education.

Gary Lee Keedy, of Glen Burnie, Md., A. B. Davis and Elkins College, 1964; M. L. A. The Johns Hopkins University, 1967. Liberal Arts.

Donald James Koch, of Baltimore, Md., B. S. Mount St. Mary's College, 1967; M. A. Lehigh University, 1968. Liberal Arts.

Trude Neuman Kranzler, of Baltimore, Md., B. A. Towson State College, 1971; M. Ed. The Johns Hopkins University, 1972. Education.

Elaine Uchuck La Pasha, of Sparks-Glencoe, Md., B. S. University of Maryland, 1946; M. Ed., The Johns Hopkins University, 1970. Education.

Henry Frederick Linck, Jr., of Baltimore, Md., M. A. Morgan State College, 1968. Liberal Arts.

David Reimer Lynn, of Baltimore, Md., M. Ed. University of Hawaii, 1968. Education.

Theresa Marie Neas Margolis, of Baltimore, Md., M. A. Teachers College, Columbia University, 1961. Education.

Vladimir G. Marinich, of Columbia, Md., M. A. New York University, 1966. Liberal Arts.

William Loftus McIntyre, of Baltimore, Md., B. S. Towson State College, 1958; M. Ed. California Western University, 1965; M. L. A. The Johns Hopkins University, 1971. Liberal Arts.

Herbert Joseph McMonagle, Jr., of Baltimore, Md., B. S. Loyola College, 1964; M. A., 1967. Education.

Margaret Routzahn Miller, of Frederick, Md., B. A. Western Maryland College, 1935; M. L. A. The Johns Hopkins University, 1969. Liberal Arts.

Martha Elizabeth Mise, of Baltimore, Md., B. S. Loyola College, 1956; M. A., 1968. Education.

Karen Hyland Moriarty, of Baltimore, Md., A. B. Syracuse University, 1968; M. A., 1969. Education.

Edward Albert Novalis, of Baltimore, Md., B. S. Indiana University, 1964; M. Ed., 1967. Education.

Barbara Kocka Olson, of Lutherville, Md., M. A. University of Minnesota, 1962. Education.

Leland Curtis Otto, of Essex, Md., B. S. Frostburg State College, 1966; M. L. A. The Johns Hopkins University, 1971. Liberal Arts.

Vivian LaVerte Connorton Pedraza, of Baltimore, Md., B. S. The Johns Hopkins University, 1967; M. Ed. Loyola College, 1969. Education.

Charlotte Marcella Peltz, of Baltimore, Md., B. A. Parsons College, 1970; M. Ed. The Johns Hopkins University, 1972. Education.

Joseph Luther Press, of Baltimore, Md., B. S. Coppin State College, 1957; M. S. Morgan State College, 1967. Education.

Idell Shedrick Pugh, of Towson, Md., M. Ed. University of Maryland, 1965. Education.

Leona Edwards Roberts, of Baltimore, Md., M. Ed. Temple University, 1965. Education.

Carol Dee Rosenfeld, of Baltimore, Md., A. B. Brooklyn College, 1965; M. S. University of Michigan, 1966. Education.

Therese Rossi Schmidt, of Baltimore, Md., M. Ed. Loyola College, 1971. Education.

Warren Armstrong Sears, of Millersville, Md., M. Ed. Loyola College, 1969. Education.

Jacqueline Thomas Smith, of Silver Spring, Md., B. Mus. West Virginia State College, 1942; M. Ed. American University, 1970. Education.

James Floyd Stegall, of Odenton, Md., B. S. Texas Technological College, 1966; M. A. Western Michigan University, 1968. Liberal Arts.

June Elise Streckfus, of Baltimore, Md., B. S. University of Maryland, 1968; M. L. A. The Johns Hopkins University, 1971. Liberal Arts.

Eileen Schultz Tarcay, of Baltimore, Md., M. A. University of Utah, 1953. Liberal Arts.

Alexander William Vlangas, of Baltimore, Md., B. S. Towson State College, 1953; M. Ed. University of Maryland, 1960. Education.

David Frederick Wallace, of Baltimore, Md., A. B. Morgan State College, 1965; M. L. A. The Johns Hopkins University, 1970. Liberal Arts.

Lauralee Fritts Whitmore, of Linthicum Heights, Md., B. A. Longwood College, 1952; M. Ed. The Johns Hopkins University, 1968. Education.

Elton Clifford Wiest, of Nashville, Tenn., B. S. Middle Tennessee State University, 1972; M. Ed., 1972. Education.

Louis Melis Winkelman, Jr., of Baltimore, Md., B. S. Towson State College, 1964; M. Ed. Western Maryland College, 1966; M. L. A. The Johns Hopkins University, 1970; C. A. S. (Educ.), 1972. Liberal Arts.

Alice Acors Wishard, of Baltimore, Md., B. S. Towson State College, 1968; M. Ed. The Johns Hopkins University, 1972. Education.

Antoinette Maria Worsham, of Baltimore, Md., B. A. College of Notre Dame of Maryland, 1965; M. L. A. The Johns Hopkins University, 1969. Liberal Arts.

Mary Catharine Beale Wright, of Reisterstown, Md., B. S. Westchester State College, 1947; M. A. George Peabody College, 1949. Liberal Arts.

MASTERS OF SCIENCE

in The School of Hygiene and Public Health

Daniel MacCulloch Barr, III., of York, Pa.; B. S. University of Illinois, 1964; M. D. University of Missouri School of Medicine, 1969. Medical Care and Hospitals.

Patients Problems and Health Services.

Judith Helen Carey, of San Francisco, Calif., R. N. Quincy Hospital, 1961; B. S. Boston College, 1967. Medical Care and Hospitals.

Utilization of a Primary Care Center.

Ken Jer-Shii Chen, of Taoyuan, Taiwan, B. Ed. National Taiwan University, 1965. Population Dynamics.

Reinsertion of IUD's: The Taichung IUD Follow Up Study.

Rhonda Beth Einhorn, of Roslyn, N. Y., B. A. William Smith College, 1971. Population Dynamics.

Investigation of Attitudes Toward Post-Abortion Care and Birth Control.

Elizabeth Penn Elliston, of Weston, Mass., B. A. Mt. Holyoke College, 1958. International Health.

Studies on the Development of a Skin Test Antigen for Leprosy.

Thomas Spencer Inui, of Girard, Ohio, B. A. Haverford College, 1965; M. D. The Johns Hopkins University School of Medicine, 1969. Medical Care and Hospitals.

Effects of Post-Graduate Physician Education on the Management and Outcomes of Patients with Hypertension.

Charlene Louise Jones, of Gaithersburg, Md., B. A. Ohio Wesleyan University, 1968. Maternal and Child Health.

Milk Consumption in Lactose In Tolerent Black Adolescents.

Marilyn Breazeale Lee, of Amherst, Mass., B. S. University of Massachusetts, 1971. Pathobiology.

The Distribution and Biosynthesis of Serotonin in Hymenolepis *diminuta* and *H. nana.*

Kathleen Cameron Morton, of Baltimore, Md., M. B., B. S. Middlesex Hospital, University of London, 1954. Medical Care and Hospitals.

Pediatric Nurse Practitioners Intervention Study.

Sandra Lynn Oliver, of Mansfield, Ohio, B. A. College of Wooster, 1971. Environmental Health.

Lithium and Copper in Mental Health.

Mary Burr Paxton, of Hingham, Mass., B. A. Boston University, 1969. Biostatistics.

Linkage Analysis for Characters with Incomplete Separation of the Phenotypes.

Mary Ann Sullivan, of Lynwood, Wash., B. S. University of Washington, 1962; M. D. University of Washington, School of Medicine, 1966. Medical Care and Hospitals.

Physicians' Attitudes Toward Tonsillectomy and Adenoidectomy: A Critical Analysis

MASTERS OF HEALTH SCIENCE

in The School of Hygiene and Public Health

Claire Aubertin, of Montreal, Canada, B. A. University of Ottawa, 1957; B. A. McGill University, 1958. Mental Hygiene.

Alexa Kaplan Ballo, of Adelphia, Md., B. A. University of Rochester, 1968. Mental Hygiene.

Elwin Joseph Benton, of Duluth, Minn., B. A. University of Minnesota, 1972. Mental Hygiene.

Harold Ray Couch, of Wise, Va., B. A. Emory & Henry College, 1969. Epidemiology.

Susan Shaw Devesa, of Bethesda, Md., B. A. Earlham College, 1966. Epidemiology.

Dorothy D. Dunlop, of Baltimore, Md., B. S. Wheaton College, 1972. Biostatistics.

Robert Peter Ellis, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1969. Environmental Health.

Richard Adam Fischer, of Baltimore, Md., B. A. The Johns Hopkins University, 1972. Epidemiology.

Bonnie Ray Gadless, of Miami Beach, Fla., B. A. University of Southern California, 1968; B. I. M. Thunderbird Graduate School of International Management, 1969. Comprehensive Health Planning.

Lawrence Mark Gilbert, of Baltimore, Md., B. A. University of Pennsylvania, 1971. Epidemiology.

Sharon Ann Hargrove, of Florence, Ala., B. A. Miles College, 1972. Biostatistics.

Albert Mitchell Head, of New York, N. Y., B. A. The Hiram Scott College, 1968. Comprehensive Health Planning.

John Wade Koontz, of Bowie, Md., B. S. C. E. University of Maryland, 1964. Environmental Health.

Philip Graham Kraft, of Springfield, Ill., B. A. St. John's Seminary, 1958. Mental Hygiene.

Ronald Melvin Kropp, of Baltimore, Md., B. S. University of Baltimore, 1968. Comprehensive Health Planning.

Donna Braslow Levison, of Baltimore, Md., B. A. Goucher College, 1971. Comprehensive Health Planning.

Katherine Sauter McCarter, of Seabrook, Md., B. A. Cedar Crest College, 1964. Environmental Health.

Philip Joseph McKenna, of Boston, Mass., B. A. Boston College, 1953; M. A. 1955; S. T. B. Weston College, 1960. Mental Hygiene.

Bernard William McMonigle, of Silver Spring, Md., B. A. Moravian College, 1943. Mental Hygiene.

Kwame Olanrewaju Padonou, of Ibadan, Nigeria, M. D. University of Heidelberg, 1969. International Health.

Annette Weisman Press, of Randallstown, Md., B. A. Brandeis University, 1955. Comprehensive Health Planning.

Charles Herbert Pugh, of Colonia, N. J., B. A. Morris Harvey College, 1970. Comprehensive Health Planning.

Ann Eve Pulver, of New York, N. Y., B. S. Boston University, 1970. Mental Hygiene.

Tadikonda Janaki Ramaiah, of Andhra Pradesh, India, B. Sc. Andhra University, 1958; M. Sc. Gujarat University, 1960. Public Health Administration.

Roger Michael Reis, of Newburgh, N. Y., B. S. State University of New York College at Buffalo, 1964. Mental Hygiene.

Robert A. Robbins, of Brimley, Mich., B. S. Central Michigan University, 1948. Mental Hygiene.

Catherine Alexandria Roman, of Washington, D. C., B. A. Smith College, 1957. Environmental Health.

Froma Beth Rosen, of Brooklyn, N. Y., B. S. University of New York Downstate Medical Center, 1973. Biostatistics.

Joan Louise Stine, of Ellicott City, Md., B. S. Towson State College, 1971. Mental Hygiene.

Thomas Michael Sullivan, of Reisterstown, Md., B. S. Indiana University of Pennsylvania, 1964. Epidemiology.

Richard Andrew Uhlar, of Struthers, Ohio, B. E. M. E. Youngstown State University, 1969. Environmental Health.

José Velasco, of Maracay-Aragua, Venezuela, B. S. C. E Instituto Politecnico Nacional de Mexico, 1967. Environmental Health.

Arthur Millard Virgin, III., of Los Angeles, Calif., B. A. The Catholic University of America, 1966. Biostatistics.

Constance Sims Webb, of Hyattsville, Md., B. S. University of Kentucky, 1970. Environmental Health.

MASTERS OF PUBLIC HEALTH

in The School of Hygiene and Public Health

Awad Hussien Abudejaja, of Benghazi, Libya, M. B. B. Ch. Faculty of Medicine, 1965; D. T. M. & H. Liverpool School of Tropical Medicine and Hygiene, 1967; D. T. C. D. University of Wales, 1968.

Claude Jean Roger Aguillaume, of Gueret, France, M. D. Universite de Clermont, 1970; C. E. S. 1970.

Cheryl Sedlacek Alexander, of Towson, Md., B. S. N. University of North Carolina, 1967; M. A. New York University School of Nursing, 1971.

Abdulmonem Mohammed Aly, of Cairo, Egypt, M. B. B. Ch. Alexandria University, 1952; D. S. Cairo University, 1962; D. Ortho. Ein Shams University, 1969.

Jorgen Andersen, of Copenhagen, Denmark, D. D. S. The Royal Dental College, 1969.

Cathryn Louise Anderson, of Lakewood, Colo., B. S. University of Colorado, 1960; M. S. University of California, 1965.

Veluppillai Ariaratnam, of Colombo, Ceylon, B. Sc. Uniniversity of Ceylon, 1951; M. Sc. University of Western Ontario, 1969.

John Walker Armstead, Jr., of Baltimore, Md., A. B. Lincoln University, 1947; M. D. Meharry Medical College, 1954.

Ahmad Saracheh Aurang, of Stanton, Mich., M. D. University of Teheran, 1964.

Teklemariam Ayele, of Gondar, Ethiopia, D. P. H. Haile Sellassie I University Public Health College, 1961; M. D. Haile Sellassie I University Faculty of Medicine, 1971.

William James Bavington, of Quebec, Canada, B. A. Graceland College, 1962; M. D. University of Toronto Faculty of Medicine, 1966; D. T. M. & H. University of Liverpool School of Tropical Medicine and Public Health, 1971.

Thomas Richard Bender, of Anchorage, Alaska, B. S. California State College, 1961; M. D. Hahnemann Medical College and Hospitals, 1968.

Shushum Bhatia, of Uttar Pradesh, India, M. B. B. S. University of Delhi, 1968; D. G. O. 1970.

Mohammed Shafi Boikhan, of Karachi, Pakistan, M. D. Heidelberg University, 1970.

Judith Pence Bourne, of Atlanta, Ga., B. S. University of Washington, 1963; M. S. The Catholic University of America, 1967.

Kay Elizabeth Brooks, of Alexandria, Va., B. S. N. University of Virginia, 1965.

Maureen Theresa Brown, of Newfoundland, Canada, R. N. Halifax Infirmary School of Nursing, 1959; P. H. N. University of British Columbia, 1965; B. Sc. N. Mount St. Vincent University, 1969.

Angel Antonio Cardona, of Alexandria, Va., M. D. George Washington University School of Medicine, 1931.

Richard Alan Cash, of Baltimore, Md., B. S. University of Wisconsin, 1963; M. D. New York University School of Medicine, 1966.

Sopon Chalapati, of Khonkaen, Thailand, M. D. University of Medical Science, 1964; M. P. H Mahidol University School of Public Health, 1970.

Po-Ya Chang, of Ping-Tong, Taiwan, M. D. Kaohsiung Medical College, 1968; M. P. H. Public Health Institute of National Taiwan University, 1970.

Peter John Chauvel, of Baltimore, Md., M. B. B. S. University of Sydney School of Medicine, 1963.

Arin Judith Chwalow, of Bala Cynwyd, Pa., R. N. Albert Einstein Medical College School of Medicine, 1967; B. S. N. University of Pennsylvania, 1970.

John Quillian Cleveland, Jr., A. B. Emory College, 1962; M. D. Emory University School of Medicine, 1966.

George Melchiades Coleman, of McLean, Va., B. A. George Washington University, 1950.

Joseph James Corliss, of Columbia, Md., B. S. Rensselaer Polytechnic Institute, 1962.

Loretta Ann Dash, of Ft. Meade, Md., R. N. St. Vincent's Hospital School of Nursing, 1957; B. A. University of Maryland, 1972.

Anthony Ferdinand Di Stefano, of Philadelphia, Pa., B. A. LaSalle College, 1968; M. Ed. Temple University, 1973; O. D. Pennsylvania College of Optometry, 1973.

Jalal Doostan, of Shiraz, Iran, M. D. Pahlavi University Medical School, 1967.

Emmie Elizabeth Ewing, of Washington, D. C., A. B. Bryn Mawr College, 1960.

Carol Ann Fielders, of Washington, D. C., R. N. Lutheran Hospital School for Nurses, 1960; B. S. N. The Catholic University of America, 1965.

Robert Darrell Fischer, of Washington, D. C., B. A. Lewis and Clark College, 1964; M. D. University of Washington Medical School, 1970.

William Garth Fitzhugh, of Oxon Hill, Md., B. A. University of Virginia, 1962; M. D. Medical College of Virginia, 1966.

Antoine Kofi Fomufod, of Baltimore, Md., M. B. B. S. University of Ibadan Medical School, 1967.

Lawrence A. Fox, of Randallstown, Md., B. A. University of Maryland, 1960; D. D. S. University of Maryland School of Dentistry, 1964.

Kenneth Alan Freeman, of Washington, D. C., A. B. University of North Carolina, 1963.

Norman Anthony Fuller, of Columbia, Md., M. A. Jesuit University, 1955; M. S. University of Madras, 1958; S. T. L. Jesuit University, 1963; Ph. D. Pasteur Institute, 1967.

Mary L. Gardner, of Wheaton, Md., B. A. Nazabeth College of Rochester, 1959.

Christena M. Gauvreau, of Chevy Chase, Md., B. S. N. Georgetown University, 1970.

Melvin Douglas Gerald, of Cerro Gordo, N. C., B. S. Morehouse College, 1965; M. D. Howard University College of Medicine 1970.

Harold Myron Ginzburg, of College Park, Md., A. B. Boston University College of Liberal Arts, 1968; M. D. Boston University School of Medicine, 1968.

Rodolfo L. Gonzalez Enders, of Lima, Peru, M. D. Universidad Nacional Mayor de San Marcos De Lima Facultad de Medicina, 1960.

Thersa Bedell Green, of Oxon Hill, Md., B. A. University of Maryland, 1966.

Gary Ray Greenfield, of Baltimore, Md., A. A. Valley Forge Junior College, 1961, B. S. Drexel University, 1964; M. A. Towson State College, 1971.

M. Linden James Griffith, of Washington, D. C., B. S. Tennessee A & I State University, 1958.

Michael Alan Gross, of Berne, N. Y., B. A. Swarthmore College, 1964; M. D. University of Chicago, 1969.

Betty L. Hammack, of Baltimore, Md., R. N. St. Mary's Hospital School of Nursing, 1960; B. S. N. University of Kentucky, 1965; M. S. University of Maryland, 1968.

William Cleveland Harris, of Baltimore, Md., B. S. Howard University, 1958; J. D. University of Baltimore, 1970.

Lee Charles Harris, of Frankfort, Ky., B. S. Kentucky State College, 1954; M. S. 1965.

William Henry Hatfield, of Fairfax, Va., B. A. St. John's College, 1941; M. D. University of Maryland School of Medicine, 1954.

David Lee Hawk, of York, Pa., B. A. Wesleyan University, 1967; M. D. University of Pennsylvania School of Medicine, 1971.

Richard Bernard Hayes, of Amsterdam, Holland, B. S. Manhattan College, 1967; D. D. S. Columbia University School of Dental and Oral Surgery, 1971.

JoAnn Kay Henderson, of Columbia, Md., B. A. University of North Dakota, 1968.

James Richard Hickman, Jr., of Huntington, W. Va., A. B. West Virginia University, 1965; M. D. Medical College of Virginia School of Medicine, 1968.

Henrietta D. Bishop Hubbard, of Columbia, Md., B. S. University of Maryland, 1973.

Jessie Frances Thompson Igou, of Philadelphia, Pa., R. N. Williamsport Hospital School of Nursing, 1964; B. S. N. University of Pennsylvania, 1968.

Prem Chandran John, of Tamilnadu, India, B. Sc. Madras Christian College, 1960. M. B. B. S. Christian Medical College, 1968.

Robert Mathis Johnson, of Clarksville, Tenn., A. B. The Johns Hopkins University, 1954; D. D. S. University of Maryland Dental School, 1958.

Thérèse G. Keelan, of Bronx, N. Y., B. S. Fairleigh Dickinson University, 1972.

Patrick G. Kelly, of Bradenton, Fla., B. S. Wheaton College, 1962; M. D. University of California School of Medicine, 1966.

Ezatollah Keyvan-Larijani, of Teheran, Iran, M. D. University of Teheran School of Medicine, 1969.

Julius Jesse King, Jr., Washington, D. C., B. S. Wagner College, 1954; D. D. S. Howard University College of Dentistry, 1958.

Ira Herbert Kolman, of Baltimore, Md., B. S. University of Maryland, 1964; M. A. 1966; Sc. D. The Johns Hopkins University School of Hygiene and Public Health, 1970.

Clare Boyle Kownacki, of Rockville, Md., R. N. Mercy Hospital School of Nursing, 1947; B. S. N. University of Maryland School of Nursing, 1973.

Richard L. Kozoll, of Gallup, N. M., A. B. University of Michigan, 1966; M. D. University of Cincinnati College of Medicine, 1970.

Marian M. Langley, of Baltimore, Md., B. S. University of Maryland, 1971.

Buchari Lapau, of Jakarta, Indonesia, M. D. University of Indonesia School of Medicine, 1967.

Marshal Simon Levine, of Columbia, Md., B. Sc. Ohio State University, 1955; M. D. Baylor College of Medicine, 1959.

Richard Arthur Lindblad, of Rockville, Md., B. S. San Jose State College, 1961; M. S. University of Colorado, 1966.

Louise Marie Lisi, of Baltimore, Md., B. A. Temple University, 1966; M. D. Hahnemann Medical College, 1970.

Loretta Mann Major, of Hyattsville, Md., R. N. Mercy College School of Nursing, 1943; B. S. The Catholic University of America, 1949.

Nabat Manji, of Karachi, Pakistan, I. S. C. University of Karachi D. J. Sind Government Science College, 1953; M. B. B. S. University of Karachi Dow Medical College, 1958.

Ronald Morgan Massey, of Macon, Ga., B. A. Tulane University, 1968; M. D. Vanderbilt University, 1972.

Ataollah Matin, of Teheran, Iran, M. D. Teheran University Medical School, 1957; D. P. H. American University of Beirut School of Public Health, 1962.

David Richard McNutt, of Toledo, Ohio, A. B. Columbia University, 1959; M. Sc. The Ohio State University, 1965; M. D. The Ohio State University School of Medicine, 1965.

James Robert Missett, of Columbia, Md., A. A. St. Thomas Seminary, 1961; B. A. The Catholic University of America, 1963; M. A. 1964; Ph. D. St. John's University, 1972; M. D. Yale University School of Medicine, 1970.

Maureen Ann Missett, of Columbia, Md., B. S. Mount St. Mary's College, 1971.

Ahmed Abdul Moen, of Flint, Mich., B. A. American University of Beirut, 1963; M. H. A. University of Michigan, 1969.

Fizzeh Sherazee Nelson, of Silver Spring, Md., I. Sc. Rangoon University, 1957; M. B. B. S. University of Karachi Dow Medical College, 1963.

Janet Warren Neslen, of Washington, D. C., B. A. Mount Holyoke College, 1945; M. D. Columbia University College of Physicians and Surgeons, 1949.

John Stephen Neuberger, of New York, N. Y., B. M. E. Cornell University, 1961; M. B. A. Columbia University, 1967.

Gerson Noronha, of Rio de Janeiro, Brazil, M. D. Guanabara State Medical School, 1973.

Kenneth Russell Ockerman, Jr., of Kaneohe, Hawaii, B. A. Indiana University, 1968; M. S. P. H. University of Hawaii, 1970.

Marjorie Kathleen Orr, of Dallas Texas, B. A. Texas Women's University, 1940; M. D. University of Texas Medical School, 1953.

Joseph Vernon Payne, of Washington, D. C., B. S. Howard University, 1953; D. D. S. Howard University College of Dentistry, 1958.

George Hunt Peacock, of Farmington, N. M., B. A. Stanford University, 1963; M. D. University of New Mexico, 1968.

Eileen Philbin, of Scranton, Pa., R. N. Mercy Hospital School of Nursing, 1963; B. S. N. University of Pennsylvania, 1971.

Emily I. Pryor, of Philadelphia, Pa., R. N. Harlem Hospital School of Nursing, 1950; B. S. N. University of Pennsylvania, 1960.

Janet Enfield Pugh, of Ellicott City, Md., R. N. Union Memorial Hospital School of Nursing, 1964; B. S. The Johns Hopkins University, 1970.

Edward John Ragan, of Ontario, Canada, B. A. University of Western Ontario, 1960; M. D. University of Western Ontario Faculty of Medicine, 1965.

Damrong Reinprayura, of Bangkok, Thailand, M. D. University of Medical Science, 1964.

Lauro Cabaysa Remo, Jr., Quezon, Philippines, M. D. Manila Central University, 1964.

Joseph Herbert Richman, of Washington, D. C., B. S. Howard University, 1962; M. D. Howard University College of Medicine, 1966.

Linda Sue Richelson, of Rockville, Md., R. N. The Johns Hopkins Hospital School of Nursing, 1968; B. S. George Washington University, 1972.

Anne Marie Richter, of Rocky Point, N. Y., B. S. Molloy College, 1962.

Theodore H. Rights, of Abington, Pa., B. S. McRavian College, 1961; M.D. Wayne State University School of Medicine, 1966.

Rob R. Robertson, of Bethesda, Md., B. S. University of Tennessee at Chattanooga, 1943; M. A. Columbia University, 1950.

Iluminada R. Rodriquez, of Rizal, Philippines, R. N. Mary Johnston School of Nursing, 1956; B. S. N. Philippines Women's University, 1966.

Carl Frederick Root, of Wytheville, Va., B. A. Atlantic Union College, 1954; M. D. Loma Linda University School of Medicine, 1958.

Walter J. Ross, of Washington, D. C., B. Sc. Howard University, 1959; D. D. S. Howard University School of Dentistry, 1963.

Fahmi Djafar Saifuddin, of Jakarta, Indonesia, M. D. University of Indonesia Faculty of Medicine, 1968.

Lawrence Bert Schonberger, of Atlanta, Ga., A. B. Oberlin College, 1965; M. D. Case Western Reserve University Medical School, 1969.

Marianne Schour, of Chevy Chase, Md., Ph. B. University of Chicago, 1945. B. S. University of Illinois, 1948; M. D. University of Illinois College of Medicine, 1950.

William O. Schuller, of Brookline, Mass., B. Sc. Ohio State University College of Optometry, 1965; Dr. of Opt. University of California School of Optometry, 1969.

Howard Gordon Searle, of Ontario, Canada, M. D. University of Western Ontario Medical School, 1959.

Lillian Jörgensen Secundy, of Washington, D. C., A. B. Brooklyn College, 1934; M. S. W. National Catholic School of Social Services, 1961.

Ruth Gertrude Shoemaker, of Long Beach, Calif., B. S. University of Washington, 1962.

Senora Anne Drewery Simpson, of Washington, D. C., B. S. Boston University, 1957.

Sichilindi Harold Siwale, of Nakonde, Zambia, M. D. Royal College of Surgeons in Ireland, 1971.

Bernard Slosberg, of Washington, D. C., S. B. Massachusetts Institute of Technology, 1963; M. D. Albert Einstein College of Medicine, 1967.

Gwendolyn Loures Smith, of Washington, D. C., B. S. Tuskegee Institute School of Nursing, 1966.

Manochehr Sobhany, of Wheaton, Md., M. D. Tabriz Medical School, 1963.

Edda Sonnenberg, of Bowie, Md., B. S. N. University of Maryland School of Nursing, 1972.

Donna Boddy Standard, of Washington, D. C., R. N. Howard University School of Nursing, 1956; B. S., 1973.

Robert Edwin Stewart, of Las Cruces, N. M., B. A. The Catholic University of America, 1962; M. S. W. San Diego State College, 1969.

Eileen Ann Stoner, of Montclair, Calif., R. N. Knapp College of Nursing, 1964; B. S. N. University of California, 1973.

Mary F. Story, of Hamburg, N. Y., B. S. N. D'Youville College, 1957.

Robert Bruce Stroube, of Alexandria, Va., B. S. College of William and Mary, 1968.

Mary Jane Suskind, of Washington, D. C., B. S. Adelphi University, 1947; M. A. Columbia University, 1954.

Eliza J. Taylor, of Halethorpe, Md., B. S. Howard University, 1963; M. D. Howard University College of Medicine, 1967.

Katharine Franz Theibault, of Glen Burnie, Md., B. S. St. Joseph College, 1969.

Miriam Toporowicz, of Santiago, Chile, M. D. Universidad de Chile, 1969.

Paul Unschuld, of Eiserfield, West Germany, Ph. D. L.-M.'s Universitat Munchen, 1971.

Sheila Rosemary Wall, of Baltimore, Md., B. S. N. University of Maryland, 1972.

William Michael Waring, of Wilmington, Ohio, B. A. University of Cincinnati, 1967; M. D. Medical College of Virginia, 1971.

Zadie Ozella Thompson Webb, of Columbia, Md., B. S. Howard University, 1954; M. D. Howard University College of Medicine, 1958.

Walter Joseph Wiechetek, of Bayonne, N. J., A. B. Seton Hall University, 1966; M. D. University of Maryland School of Medicine, 1972.

Harold Carl Wiechman, of Washington, D. C., M. D. Wayne State University School of Medicine, 1972.

Jesse Franklin Williams, of Clinton, N. C., B. S. Fayetteville State College, 1964; M. D. Howard University College of Medicine, 1970.

Roland Barksdale Williams, of Baltimore, Md., B. S. Howard University, 1966; M. S. 1972; M. D. Howard University College of Medicine, 1971.

Peter Wüthrich, of Lausanne/Vaud, Switzerland, M. S. University of Berne, 1970; Ph. D. 1973.

Diane Katharine Wysowski, of Kewanne, Ill., B. S. N. Loyola University, 1969.

Kathryn Nancy Zobel, of Baltimore, Md., R. N. Highland Alameda County School of Nursing, 1959; B. S. University of Maryland School of Nursing, 1973.

MASTERS OF ARTS

in The School of Advanced International Studies

Bassam F. Aburdene, of Waterbury, Conn., B. A. University of Connecticut, 1972.

Marianne Louise Albertson, of Tacoma, Wash., B. A. Swarthmore College, 1971.

Ali Abdalla Al-Gayed, of Tripoli, Libya, B. A. University of Libya, 1962.

Aldon Scott Anderson, of Salt Lake City, Utah, B. A. Columbia University, 1972.

Vivienne Zoë Ascher, of Westbury, N. Y., B. S. F. S. Georgetown University, 1971.

Dominique Babelon, of Nanterre, France, Licence Faculte de Droit et Sciences Economiques de Nanterre-Paris, 1970; Diplome 1971.

Steffen Henneberg Bach, of Frederiksvaerk, Denmark, B. A. Hebrew University of Jerusalem, 1972.

Bruce Baker, of Gary, Ind., B. A. The Johns Hopkins University, 1971.

Ruben Michael Barth, of Amsterdam, The Netherlands, B. A. Brandeis University, 1971.

Vincent Enzo Battaglia, of Chicago, Ill., B. S. Loyola University, 1967.

Nelson Javier Bautista, of Pasadena, Calif., B. S. California State Polytechnic University, 1972.

Lincoln Spencer Beaumont, of Cranston, R. I., B. A. Brown University, 1959.

Abdeslem Ben Younes, of Tunis, Tunisia, B. A. University of Tunis, 1969.

Henry Richard Berghoef, of Holland, Mich., B. A. Calvin College, 1971.

Marcie Susan Berman, of Maplewood, N. J., B. A. Oberlin College, 1972.

Edward Hall Boatman, of Arecibo, Puerto Rico, B. A. The Johns Hopkins University, 1973.

Robert Douglas Bradbury, of Gainesville, Fla., B. A. Florida State University, 1972.

John Van Ess Brewer, of Ridgefield, Conn., B. A. Williams College, 1972.

Karen Sue Brown, of Michigan City, Ind., B. A. DePauw University, 1970.

Robert B. Buckler, of Monroeville, Pa., B. A. Carleton College, 1972.

Robert Alexander Burck, of Minneapolis, Minn., B. A. University of Minneapolis, 1965; J. D. 1970.

Donald Businger, of Euclid, Ohio, B. A. Georgetown University, 1969; M. A. 1970.

Sandra S. Callier, of St. Louis, Mo., A. B. St. Louis University, 1971.

Richard James Caples, of Reisterstown, Md., B. A., Yale University, 1971.

Janet Swan Chisholm, of Birmingham, Mich., B. A. University of Southern California, 1972.

Edward Morton Clarke, of Newton, Mass., B. A. Amherst College, 1969.

Anna Christine Cohagen, of Fremont, Calif., B. A. University of California, Davis, 1972.

Holly Roy Connelly, of Washington, D. C., B. A. Wheaton College, 1970.

James Joseph Coone, of Fishkill, N. Y., A. B. Harvard College, 1970.

James Christopher Corr, of Glasgow, Scotland, B. A. Peterhouse College, Cambridge, 1971.

Jere Kenneth Cox, of Union, N. J., B. A. Fairleigh-Dickinson University, 1971.

Martin Tom Cramer, of Hamburg, Germany, B. S. F. S. Georgetown University, 1971.

George L'Overture Crowell, of Birmingham, Ala., B. A. Antioch College, 1970.

Thomas Pease Cutler, of Farmington, Conn., B. A. Yale University, 1968.

Patrick Delannoy, of Chosy de roy, France, Diplome de sortie Ecole Superieure des Sciences Economiques et Commerciales, 1967.

Fidele Tanor Dionou, of Ziquinchor, Senegal, B. A. State University of New York, Buffalo, 1972.

David Drexler, of North Hollywood, Calif., B. A. University of California, Los Angeles, 1972.

Erik Peter Eckholm, of Tucson, Ariz., B. A. Occidental College, 1971.

Oktay Ersin, of Ankara, Turkey, B. A. Academy of Economical and Commercial Sciences, Istanbul, 1971.

George Richard Fletcher, Jr., of Washington, D. C., B. A. University of Virginia, 1972.

Alan Andrew Foley, of Tuxedo, N. Y., B. A. Tufts University, 1972.

David Eric Friedman, of Los Angeles, Calif., B. A. University of California, Los Angeles, 1972.

Wallace Willoughby Fullerton, Jr., of Wayne, Pa., B. E. S. The Johns Hopkins University, 1969.

Theresa Marie Gallo, of West Orange, N. J., B. A. Seton Hall University, 1972.

John Timothy Garrity, Jr., of Washington, D. C., B. A. College of the Holy Cross, 1971.

Jeffrey Elliot Garten, of Stamford, Conn., B. A. Dartmouth College, 1968.

Joseph Edward Gemayel, of Beirut, Lebanon, B. A. University of Oregon, 1970; M. A. 1971.

Halûk Bahri Gerger, of Istanbul, Turkey, B. A. American University of Beirut, 1971.

Stephen Ray Grummon, of Springfield, Ill., B. A. Cornell College, 1969.

Marie-Joelle Renée Haas, of St. Louis, Mo., Licencie Free University of Brussels, 1971.

Renée Marian Harris, of Kansas City, Mo., B. A. Western College, 1972.

Donald John Hasfurther, of Severna Park, Md., B. A. University of Virginia, 1971.

Joanne Marie Hasslinger, of Venice, Calif., B. A. University of California, Los Angeles, 1972.

John Joseph Hickey, Jr., of Arlington, Va., B. A. Belmont Abbey College, 1969.

Paul Meays Holmes, of Rome, N. Y., B. A. Hamilton College, 1971.

James Alan Hradsky, of Muskegan, Mich., B. A. University of Michigan, 1969.

Repps Bedford Hudson III, of Norborne, Mo., B. A. University of Missouri, 1972.

Philip Tithon Hung, of Hong Kong, B. B. A. University of Hawaii, 1972.

William Burr Hunt II, of Washington, D. C., B. A. University of Missouri, 1970.

John Gardner Hutchins, of Annapolis, Md., B. S. United States Naval Academy, 1968.

Tina-May Issenman, of Montreal, Quebec, Canada, B. A. Tufts University, 1972.

Francis Brendan Jacobs, of London, England, B. A. University of Cambridge, 1972.

David Elmer Thure Jensen, of Abbotsford, Wisc., B. A. Macalester College, 1969.

Susan Rockwell Johnson, of McLean, Va., B. A. Principia College, 1971.

Franklin Donald Julian, of Fairfax, Va., B. A. Temple University, 1960.

Lee Alice Kimball, of Bellevue, Wash., B. A. Stanford University, 1969.

David Harris Klingensmith, of Amarillo, Tex., B. A. Tulane University, 1972.

Kenneth Harold Kolb, of Berwyn, Ill., B. A. Beloit College, 1969.

Joseph Wesley Lampo, of Neosho, Mo., B. A. University of Missouri, 1968.

Jane Nicholds Lampo, of Albemarle, N. C., B. A. University of North Carolina, 1972.

Laurence Jay Lasoff, of Brookline, Mass., B. A. Columbia College, 1972.

John Lenczowski, of Berkeley, Calif., B. A. University of California, Berkeley, 1972.

Lennart Carl Linner, of Stockholm, Sweden, B. A. Stockholm University, 1970.

Michael Basil Livanos, of New York, N. Y., B. A. The Johns Hopkins University, 1973.

Orlando José Loera, of Hawthorne, Calif., B. A. University of California, Los Angeles, 1972.

Joseph John Mackiewicz, of Holyoke, Mass., B. A. University of Massachusetts, 1972.

Bruce Joseph MacPherson, of Friendly, Md., B. A. The Johns Hopkins University, 1972.

Gregory David M. Maletta II, of Kensington, Md., B. A. Trinity College, 1972.

Sven Theus Malmberg, of Stockholm, Sweden, Fil. Kand. University of Stockholm, 1972.

Cosmo Kenningham Marchant, of Toronto, Ontario, Canada, B. A. McGill University, 1966; L. L. B. York University, 1972.

Peter Desmond Maynard, of Nassau, Bahamas, B. A. McGill University, 1971.

James Scott McCallum, of Fond du Lac, Wisc., B. A. Macalester College, 1972.

Ronald Edward Meek, of Edina, Mo., B. A. University of Missouri, 1972.

Eric Graf Monaco, of Hamilton, Ontario, Canada, B. A. Miami University, 1971.

Fernando Mario-Luis Morales-Macedo, Jr., of Silver Spring, Md., B. A. The Johns Hopkins University, 1973.

Peter Preston Ogilvie, of Stevenson, Md., B. A. Williams College, 1970.

George Thomas Olesh, of Brawley, Calif., B. A. University of California, Los Angeles, 1972.

Rozanne Deane Oliver, of Front Royal, Va., B. A. Ohio State University, 1972.

James Craig Orr, of Stamford, Conn., B. A. Wesleyan University, 1968.

Mary Ann Peters, of Hudson, Ohio, B. A. University of Santa Clara, 1972.

Hermann Otto Pfrengle, of Wiesbaden, Germany, B. A. Oakland University, 1969; M. L. A. The Johns Hopkins University, 1971.

Paul Alan Richard, of Livonia, Mich., A. B. Eastern Michigan University, 1968.

James George Rickards, of Villas, N. J., B. A. The Johns Hopkins University, 1973.

Linda Jane Rie, of Jamaica, N. Y., B. A. Barnard College, 1972.

Sylvia M. Ruggeri, of Elizabethtown, Pa., B. S. Pennsylvania State University, 1972.

Francis Frederick Ruzicka, of Madison, Wisc., B. A. College of the Holy Cross, 1972.

Nemeh Elias Sabbagh, of Fort Worth, Tex., B. A. Austin College, 1972.

Jonathan Scully Sanders, of Alexandria, Va., B. A. Trinity College, 1968.

Nancie Anne Schalk, of Lancaster, Calif., B. A. University of California, Berkeley, 1971.

Reinhold Anton Schulz, of Hatboro, Pa., B. A. Bloomsburg State College, 1969.

Alan Bruce Sielen, of Pasadena, Calif., B. A. University of California, Berkeley, 1971.

Robert Francis Simmons, of Rochester, N. Y., B. S. F. S. Georgetown University, 1972.

Steven Earl Snow, of Cranston, R. I., B. A. The Johns Hopkins University, 1972.

Jerry Stilkind, of Baltimore, Md., B. S. City College of New York, 1956; M. A. University of Michigan; 1959; M. S. Columbia University, 1962.

Jane Kay Stockard, of Fairfax, Va., B. S. J. Northwestern University, 1971.

Richard John Sullivan, of Babylon, N. Y., B. S. State University of New York, New Paltz, 1972.

Asher Charles Suss, of Randallstown, Md., B. A. The Johns Hopkins University, 1973.

Robert Ernest Sylvester, of Somerville, Mass., B. A. University of Massachusetts, 1967; J. D. Southern Methodist University, 1970.

Kathleen Ann Tanner, of St. Louis, Mo., B. A. Fontbonne College, 1972.

Mary Susan Ueber, of Fort Wayne, Ind., B. A. Macalester College, 1972.

Geert Van Brandt, of Vijversdreef, Belgium, Licentiaat Universitaire Faculteiten Sint-Ignatius, 1971.

Gary Leslie Vaughan, of Orchard Park, N. Y., B. A. Hamilton College, 1972.

Lee Walker, of Annapolis, Md., B. A. Swarthmore College, 1972.

William Robert Warne, of McLean, Va., B. A. Princeton University, 1960.

William Neil Witting, of Alexandria, Va., B. A. The Johns Hopkins University, 1973.

Adane Fetle Work, of Addis Ababa, Ethiopia, B. A. Ohio Wesleyan University, 1970; M. A. Drew University, 1972.

James Dunlap Young, of Harlingen, Tex., B. A. Austin College, 1971.

MASTERS IN MENTAL HEALTH

in the Faculty of Medicine

Eva B. Blum, of Baltimore, Md. Psychiatry and the Behavioral Sciences.

Parental Responses To A Mentally Retarded Child.

Lois H. Blum, of Baltimore, Md., A. B. Goucher College, 1942. Psychiatry and the Behavioral Sciences.

The Tie That Binds: The Role of Separation—Individuation In The Diagnosis And Treatment Of Patients With Borderline Syndrome.

Ruth Ball Brill, of Washington, D. C., B. A. University of Pennsylvania, 1950. Psychiatry and the Behavioral Sciences.

A Study Of The Level Of Psychiatric Symptomatology In Oncology Inpatients.

Mary Lacy Fetting, of Baltimore, Md., A. B. College of Notre Dame of Maryland, 1962. Psychiatry and the Behavioral Sciences.

A Study Of A Therapeutic Program For The Adolescent Offspring Of Alcoholics.

Ellen Halle, of Baltimore, Md., A. B. Mount Holyoke College, 1948. Psychiatry and the Behavioral Sciences.

Communication In Family Of Origin And Current Marital State In Three Samples Of Women Seen At The Columbia Clinic.

Lynne Kase, of Baltimore, Md., B. S. Syracuse University, 1948. Psychiatry and the Behavioral Sciences.

Females Diagnosed As Hysterical Personality Are Attracted To Men With Sociopathic Features.

MASTERS OF ARTS

in the Faculty of Medicine

Edward Congdon Atwater, of Rochester, N. Y., B. A. University of Rochester, 1950; M. D. Harvard University, 1955. History of Medicine.

Financial Subsidy Of American Medical Education In The Nineteenth Century.

Barbara L. Gould, of Anchorage, Alas., B. A. Grinnell College, 1972. Art as Applied to Medicine.

The Microvasculature Of The Rat Lymph Node, With Emphasis On The High Endothelial Venule.

Timothy C. Hengst, of Los Angeles, Calif., B. A. California Lutheran College, 1972. Art as Applied to Medicine.

Instructional Model Of The Temporal Bone.

Karen Marie Kumor, of Cleveland, Ohio, B. S. University of Dayton, 1969. Physiological Chemistry.

Robert Arthur Mooney, of Belleville, N. J., B. S. Rensselaer Polytechnic Institute, 1971. Physiological Chemistry.

Debra Ann Neill, of Orlando, Fla., B. A. Knox College, 1972. Art as Applied to Medicine.

The Capsulectomy Of The Proximal Interphalangeal Joint Of The Finger For Lack Of Flexion: A Film Production.

Mary Cooley Walker, of Baltimore, Md., B. A. University of Texas at Austin, 1972. Art as Applied to Medicine.

The Temporal Bone: Dissection Of A Decalcified Specimen; An Instructional Slide-Tape Program.

MASTERS OF SCIENCE IN ENGINEERING

in the Faculty of Arts and Sciences

Abdullah Samir Al-Rifa'i, of Amman, Jordan, Electrical Engineering.

Joseph Louis Bates, of Baltimore, Md., B. A. The Johns Hopkins University, 1973. Electrical Engineering.

Data Structure Description Languages.

Richard Wade Berger, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1973. Mathematical Sciences.

Richard Lionel Campbell, of Hoffman, N. C., B. S. College of Charleston, 1955. Electrical Engineering.

Ivan Lee Caplan, of Baltimore, Md., B. S. Drexel Institute of Technology, 1963. Mechanics and Materials Science.

The Relationship between Microstructure, Alloy Content, and Mechanical Properties in Binary Titanium Alloy Systems.

Homer Jeffrey Elseroad, of Rockville, Md., B. A. Carleton College, 1970. Environmental Engineering.

Health Benefits from Improved Community Water Supplies in Developing Countries.

Lawrence Stephen Guiland, of College Park, Md., B. S. Howard University, 1970. Environmental Engineering.

Jose Manuel Gundelach, of Santiago, Chile, Civil Engineer University of Chile, 1966. Environmental Engineering.

A General Linear Decision Rule in Reservoir Management and Design.

Akira Ishikawa, of Tokyo, Japan, B. E. Seikei University, 1971. Mathematical Sciences.

Robert Joseph Kassel Jacob, of Brooklyn, N. Y., B. A. The Johns Hopkins University, 1972. Mathematical Sciences.

Rodney David Jones, of Milltown, Del., B. A. University of Delaware, 1970. Geography.

The Distribution of Benthic Invertebrates in Upper Indian River Estuary, Delaware, and the Impact of Thermal Additions from a Steam-Electric Power Plant.

King Tak Lee, of Kuala Lumpur, Malaysia, B. S. University of Malaya, Malaysia, 1970. Mathematical Sciences.

Stanley Merrill, of Baltimore, Md., B. A. Franklin and Marshall College, 1967; M. S. Cornell University, 1969. Electrical Engineering.

Joseph Mitola III, of Parkville, Md., B. S. Northeastern University, 1971. Electrical Engineering.

David (Dawoud) Nematzadeh, of Tehran, Iran, B. S. New Haven College, 1971. Mechanics and Materials Science.

Gross Characteristics of Flow through a Collapsible Tube: A Model of the inferior Vena Cava.

Robert Augustus Perry, of Reston, Va., A. B. Syracuse University, 1955. Environmental Engineering.

The Economic Impact of New York City Reservoirs on the Catskill Mountain Area of Southern New York State.

Arthur Perry Richek, of Charlotte, N. C., B. A. The Johns Hopkins University, 1973. Mathematical Sciences.

Donald Lee Schlenger, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1972. Environmental Engineering.

A Framework for the Evaluation of Entrainment at Electric Power Generating Stations.

Larry Marion Stephens, of Columbia, S. C., B. S. E. University of South Carolina, 1968. Electrical Engineering.

George Charles Thomas, of Clark Mills, N. Y., B. S. Clarkson College of Technology, 1972. Environmental Engineering.

A Study of the Relationship Between the Physical Properties and Visibility of Smoke Plumes.

Patrick Joseph Walsh, of Baltimore, Md., B. E. S. The Johns Hopkins University, 1973. Mathematical Sciences.

Linton Wells II, of Washington, D. C., B. S. United States Naval Academy, 1967. Mathematical Sciences.

MASTERS OF ARTS

in the Faculty of Arts and Sciences

Marc Daniel Alexander, of Los Angeles, Calif., A. B. University of California, 1972. History.

Arunas John Alisauskas, of Montreal, Quebec., B. A. Loyola College, Canada, 1971. History.

Muriel Charlotte Ashley, of Baltimore, Md., B. A. University of Maryland, 1973. Writing Seminars.
Transformations: A Collection of Poetry and Fiction.

Scott Atran, of Baltimore, Md., A. B. Columbia University, 1972. Social Relations.

Carol Sue AuBuchon, of Kansas City, Mo., B. S. College of St. Mary, 1972. Chemistry.

Mary Isabel Perl Azrael, of Baltimore, Md., B. A. Bryn Mawr College, 1964. Writing Seminars.
A Privileged Audience.

Roger Barth, of New York, N. Y., B. A. LaSalle College, 1973. Chemistry.

Edward Joseph Beiting III, of Alexandria, Ky., B. S. University of Cincinnati, 1971. Physics.

Geraldine Ann Berg, of Seattle, Wash., B. A. University of Washington, 1968. History of Art.

John Sheldon Birdsall, of New York, N. Y., A. B. Colgate University, 1971. Writing Seminars.
The Black Hole.

Albert Duryea Blissert, of Glendale, Calif., M. A. Occidental College, 1971. English.

David Wayne Boxer, of Kingston, Jamaica, A. B. Cornell University, 1969. History of Art.

Steven Eugene Boyer, of Vicksburg, Pa., B. S. Bucknell University, 1972. Earth and Planetary Sciences.

Susan Marbury Briscoe, of Baltimore, Md., A. B. Radcliffe College, 1963. History of Art.

Laura Nyquist Brown, of Baltimore, Md., A. B. Goucher College, 1970. Writing Seminars.
First Stories.

Letitia Upton Brown, of Chicago, Ill., A. B. University of Michigan, 1967. History of Art.

William Brown, of Baltimore, Md., B. S. Morgan State College, 1970. Chemistry.

Patricia Anne Carisella, of Wakefield, Mass., A. B. Simmons College, 1970. History of Art.

Eric Cheyfitz, of Toledo, Ohio. Writing Seminars.
The Monologist's Song.

Robert Paul Churchill, of Falls Church, Va., B. A. The Johns Hopkins University, 1969. Philosophy.

Deborah Hawes Clark, of Baltimore, Md., B. A. New York University, 1969. Romance Languages.

Kevin Clark, of Alexandria, Va., B. A. University of Virginia, 1969. Romance Languages.

Ann Joy Neistadt Clarke, of Philadelphia, Pa., B. S. Drexel Institute of Technology, 1968; M. A. (Chemistry) The Johns Hopkins University, 1970. Earth and Planetary Sciences.

Howard Lee Cohen, of Baltimore, Md., B. A. The Johns Hopkins University, 1969. Mathematics.

Michael Lawrence Cohen, of Springfield, Mass., B. A. The Johns Hopkins University, 1971. History.
Toward a Re-Evaluation of Intellectual History.

Roger Taylor Cole, of Brookline, Mass., B. A. Bucknell University, 1968. Political Economy.

Jane Leslie Conly, of Washington, D. C., A. B. Smith College, 1971. Writing Seminars.
In the Forest.

Jeverley Ralph Cook, Jr., of Meridian, Mass., B. A. Millsaps College, 1971. German.

Phyllis Shedd Zander Cooperman, of Sparks, Md., A. B. Goucher College, 1965. Philosophy.

Shirley Lorraine Cross, of Chantilly, Va. History.

David Ernst Dauer, of Evanston, Ill., B. A. Northwestern University, 1972. History.

Francis Arthur DeCato, of Lebanon, N. H., A. B. Oberlin College, 1972. History of Art.
The Belisarius Theme in France and England 1767-1802.

Wayne T. DeJarnette, of Baltimore, Md., B. A. The Johns Hopkins University, 1972. Physics.

Susanne Ayers Denham, of Littlestown, Pa., B. A. Western Maryland College, 1972. Psychology.

John Andrew DeSalvo, of Mount Kisco, N. Y., B. S. Stevens Institute of Technology, 1972. Biophysics.

Frances Ann Devins, of New York, N. Y., B. A. Bernard M. Baruch College, 1973. Writing Seminars.
Lucky Breaks.

Carolyn Sue Ditte, of Los Angeles, Calif., B. A. Scripp's College, 1972. History.

Harlan Morrison Doliner, of Framingham, Mass., B. A. The Johns Hopkins University, 1974. Writing Seminars.
Flight of Greening.

Karen Randlev Donnelly, of Evanston, Ill., A. B. Cornell University, 1963. Writing Seminars.
Hunters in the Snow.

Carol Leslie Good Doubledee, of Phoenix, Pa., B. A. Dickinson College, 1972. German.

William John Doubledee, of Cleveland, Ohio, B. A. College of Wooster, 1972. German.

Monica Macrae Driver, of New York, N. Y., B. A. Smith College, 1963. History of Art.
The Creative Volcano: An Artistic Image of the 18th Century.

Jeffrey Mark Duban, of Lowell, Mass., B. A. Brown University, 1971; M. A., 1971. Classics.

William Grady Durden, of Nassau, N. Y., B. A. Dickinson College, 1971. German.

James Andrew Durkay, of Rockville, Md., B. A. The Johns Hopkins University, 1968. Biology.

Petar M. Dzadzic, of Novi Sad, Yugoslavia, Diploma University of Novi Sad, Yugoslavia, 1963. Chemistry.

Felton Eugene Eaddy, of Mullins, S. C., B. A. Claflin University, 1972. Writing Seminars.
No More Lies Serpent!

Alan Joseph Eade, of Olean, N. Y., A. B. Cornell University, 1970. Political Science.
Incrementalism and Political Philosophy.

Nancy Lee Edwards, of California, Md., B. A. University of Maryland, 1970. Classics.

Arthur Roger Ekirch, of Washington, D. C., A. B. Dartmouth College, 1972. History.

Scott Kimball Ellis, of Baltimore, Md., B. A. The Johns Hopkins University, 1973. Writing Seminars.
Where Do Mosquitoes Take Your Blood?

Ron Carter Estler, of Orange, N. J., B. A. Drew University, 1972. Chemistry.

Lorraine Henrietta Filipek, of Detroit, Mich., B. S. University of Michigan, 1969. Earth and Planetary Sciences.

Timothy Francis Foley, of Galesburg, Ill., B. S. St. Louis University, 1962; M. A., 1964. Education.

Charles Thomas Foster, Jr., of Santa Maria, Calif., B. A. University of California, Santa Barbara, 1971. Earth and Planetary Sciences.

Louis Charles Frees, of Yonkers, N. Y., B. S. Fordham University, 1971. Chemistry.

Marc Mitchell Friedman, of Rockaway Beach, N. Y., B. S. Brooklyn College of The City University of New York, 1972. Earth and Planetary Sciences.

Gail Leigh Garrison, of Orange, N. J., A. B. Mount Holyoke College, 1972. History of Art.
Homer Dodge Martin: Painter of Elysium.

Virginia Ruth Gay, of Fleggbwagh, Norfolk, United Kingdom. History.
There We Never Have Failed, The Western Art of Frederic Remington and Owen Wister.

Grover Cleveland Gilmore, of Jamaica Plain, Mass., A. B. Brandeis University, 1971. Psychology.

Randolph Carl Gogats, of Oahu, Hawaii, A. A. Baltimore Junior College, 1967. Writing Seminars.
Some Poetic Impulsiveness.

Theresa Lynne Gordon, of Lancaster, Pa., A. B. Wilson College, 1973. Classics.

Geoffrey Dennis Green, of Brooklyn, N. Y., B. A. Brown University, 1973. Writing Seminars.
Always Answer No.

Linda Renee Kanter Greenstein, of Jamaica, N. Y., A. B. Vassar College, 1971. Psychology.

Harold David Grinberg, of Pittsburgh, Pa., B. A. The Johns Hopkins University, 1972. Writing Seminars.
As the Guests Go Home.

Alfred Whitney Griswold, Jr., of New Haven, Conn., B. A. Yale University, 1967. Writing Seminars.
Virginia Reel.

Richard Jay Haier, of Kenmore, N. Y., B. A. State University of New York, Buffalo, 1971. Psychology.

Lynne Faye Haims, of West Hartford, Conn., A. B. Barnard College, 1971. History.

Michael Lee Hall, of San Antonio, Texas, B. A. University of Texas, 1968; M. A., 1972. English.

Charles Eugene Halm, Jr., of Baltimore, Md., B. A. The Johns Hopkins University, 1967; M. A. University of California, 1968. History.

Gregory Christopher Han, of Brooklyn, N. Y., B. E. The Cooper Union, 1968; M. S. Cornell University, 1970. Earth and Planetary Sciences.

Reginald Floyd Harris, of Baltimore, Md., B. S. Morgan State College, 1971. Biology.

Douglas Marsh Hazzard, of Mexico City, Mexico, B. A. The Johns Hopkins University, 1974. Writing Seminars.
The Way at the House.

Marjorie Jo Norgaard Healy, of Williamsburg, Va., B. A. Lawrence University, 1972. German.

Carol Jean Olmsted Heaney, of Ellicott City, Md., B. A. Middlebury College, 1965. Geography.

Protection of United States Open Costal Waters from Municipal Sewage Pollution: A Consideration of Present Use and Regulatory Patterns and their Ecological Implications.

Patricia Jean Henley, of Terre Haute, Ind. Writing Seminars.

Quickening.

David Maylon Hepp, of Granville, Ohio, A. B. Oberlin College, 1969. Earth and Planetary Sciences.

Richard Charles Hinman, of Winnetka, Ill., A. B. Dartmouth College, 1969. Philosophy.

Alice Lynn Hoersch, of Abington, Pa., B. A. Bryn Mawr College, 1972. Earth and Planetary Sciences.

John Blake Hoover, of Washington, D. C., B. S. Lehigh University, 1971. Chemistry.

Julie Belle Houston, of East Orange, N. J., B. A. Beaver College, 1973. Writing Seminars.

Five Finger Exercises.

Shu-jing Caroline Hu, of Taipei, China, B. S. National Taiwan University, 1969. Chemistry.

Marilyn Hawley Hudgens, of Churchville, Md., B. S. The Johns Hopkins University, 1971. Chemistry.

Russell Eugene Hudson, of Baltimore, Md., B. S. Towson State College, 1970. Mathematical Sciences.

Barbara Jo Ingle, of Evansville, Ind. Geography.

Corkscrew Sanctuary: The Use of the Market for Preservation.

Robert Isaac Jeffrey, of Baltimore, Md., B. A. The Johns Hopkins University, 1974. Psychology.

Mark Stevan Jelavich, of Bloomington, Ind., A. B. Bowdoin College, 1972. Political Economy.

Scott Whitney Johnson, of Flint, Mich., A. B. Lincoln University, 1973. Writing Seminars.

Thirty Poems and a Short Story.

Peeter Kaerk, of Royal Oak, Mich., B. S. Wayne State University, 1966. Earth and Planetary Sciences.

Gabriel Martial Busheija Kariisa, of Nyabugando, Uganda, B. S. Makerere University, 1970. Political Economy.

Joseph Alvin Kayne, of Richmond, Va., B. A. University of Virginia, 1971. Political Science.

To Challenge the Incumbent: *A Study of the 1972 Congressional Contest in the Maryland Eighth District.*

Mary Lucinda Kelly, of Greensboro, N. C., A. B. Randolph-Macon Woman's College, 1966. History of Art.

Giovanni Battista Agucchi as a Critic of the Arts.

Thomas Earl Kennedy, of Piedmont, Calif., B. A. University of California, 1969. Political Economy.

Romey Thomas Keys, of Lanham, Md. English.

John Edward Kidd, of Pensacola, Fla. Writing Seminars.

Glass Houses.

David Livingstone Hortons Kiyaga-Mulindwa, of Mulago, Kampala, Uganda, B. A. Makerere University, 1970. History.

Susan Jeanne Kupper, of Chicago, Ill., B. A. University of Chicago, 1971. History.

Michael Ernest Lamb, of Lusaka, Northern Rhodesia, B. A. University of Natal, 1972. Psychology.

Patricia Sonquist Lane, of Dayton, Iowa, B. A. New York University, 1968. History of Art.

Liber Floridus Folio 253.

Andrew Steward Lang, of Washington, D. C., B. S. University of Wisconsin, 1970. Writing Seminars.

The Art of Steel Welding: Inspiration and Involvement.

Candace DuBignon Lang, of Portland, Maine, B.A. Agnes Scott College, 1971. Romance Languages.

Michael David Lauter, of Claymont, Del., B. E. S. The Johns Hopkins University, 1973. Chemistry.

Jerome Peter Leary, of Boston, Mass., A. B. Boston College, 1968. Classics.

Alan Charles Leidner, of Eastham, Mass., B. A. The Johns Hopkins University, 1974. German.

Joel Marvin Levin, of Baltimore, Md. Writing Seminars.

A Shadow of Gold.

Joseph Libertson, of Pittsford, N. Y., B. A. Northwestern University, 1968; Ph.D. The Johns Hopkins University, 1974. Romance Languages.

Kuang-hsien Lin, of Taiwan, China, B. S. National Taiwan University, 1969. Mathematical Sciences.

Gary Lee Loomis, of Baltimore, Md. Chemistry.

Earl Wilbert Lovelace, of Toco, Trinidad. Writing Seminars.

The Wine of Astonishment.

David Edwin Lowe, of Savannah, Ga., A. B. Brandeis University, 1972. Political Science.

The Establishment of the Bolling Committee: A New Generation of Congressional Reform?

Timothy Thomas Lyons, of Boston, Mass., A. B. Occidental College, 1971. Writing Seminars.

The Ocean and A Group of Poems.

James Peter MacGuire, of Cedarhurst, N. Y., B. A. The Johns Hopkins University, 1973. Writing Seminars.
Sand on Rising Snow.

John Allen Mann, of West Reading, Pa., B. S. Pennsylvania State University, 1968. Geography.
An Analysis of a Mass Movement Occurrence.

John Thomas Matthews, Jr., of Philadelphia, Pa., B. A. University of Pennsylvania, 1971. English.

Stephen Michael McClain, of Fort Worth, Texas, A. B. Princeton University, 1969. Political Science.
Totalitarian Ideology: Origins and Maintenance.

Daniel Blair McDonald, of Cincinnati, Ohio, B. A. The Johns Hopkins University, 1974. Chemistry.

John Bernard McFarland, of Cambridge, Mass., B. S. Massachusetts Institute of Technology, 1964. Political Economy.

John Joseph McGlennon, of Bay Shore, N. Y., B. A. Fordham University, 1971. Political Science.
Bureaucratic Crisis and Executive Leadership: *The New York City Police Department and the Mayor's Office.*

Peter F. McInerney, of Worcester, Mass., A. B. Colgate University, 1972. English.

Linda McIntosh, of Washington, D. C., B. A. Westhampton College, 1972. History.
William Wirt and the Presidential Elecion of 1832.

John Bernard Meixner, of Baltimore, Md., A. B. University of Illinois, 1971. Philosophy.

Frederick Clarke Meltzer, of Glendale, N. Y., B. A. University of Virginia, 1969. Political Economy.
Information and Monopoly Profits: *A Case Study of the U.S. Computer Industry.*

Katherine Mary Menton, of Poughkeepsie, N. Y., A. B. Cornell University, 1971. Philosophy.

John Joseph Miller, of Philadelphia, Pa. Classics.

Mark Crispin Miller, of Chicago, Ill. English.

Gregory Frank Moore, of Bismarck, N. Dak. Earth and Planetary Sciences.

James Stephen Moran, of St. Louis, Mo., B. A. The Johns Hopkins University, 1974. Psychology.

Harvey Sheldon Naglie, of Montreal, Canada, B. A. McGill University, 1972. Political Economy.

Karen Nelson, of Bethesda, Md., B. A. Wellesley College, 1971. Political Economy.

Michael Charles Nelson, of New Milford, N. J., B. A. College of William and Mary, 1971. Political Science.
Partisan Bias in the Electoral College.

Paul Frederick Newhouse, of Kalamazoo, Mich., B. A. Kalamazoo College, 1970; M. A. Union Theological Seminary, 1972. Philosophy.

Robert Thomas Oeste, of Philadelphia, Pa., B. A. Albright College, 1970. German.

Mary Ellen Phillips Oliveri, of Greenbelt, Md., B. A. Trinity College, 1971. Psychology.

John Nwachimereze Oriji, of Eziama, Nvosi, B. A. University of Nigeria, 1967. History.

Christopher Arnold Page, of Baltimore, Md., A. B. Dartmouth College, 1969. Philosophy.

Robert Neil Parrish, of Goleta, Calif., B. A. San Jose State College, 1967; Ph.D. The Johns Hopkins University, 1973. Psychology.

Paul Frederick Paskoff, of Bayside, N. Y., B. A. State University College, New Paltz, N. Y., 1970. History.

Leonard David Paul, of St. Benedict, Oreg., B. A. University of Notre Dame, 1960. Near Eastern Studies.

Carl Helmuth Penndorf, of Wellesley, Mass., A. B. Harvard University, 1970. Political Economy.

James Russell Perry, of Southington, Conn., B. A. University of Connecticut, 1972. History.

Peter David Petre, of Lisle, Ill., B. A. University of Iowa, 1972. Humanities Center.

Vicki Gwen Porter, of Long Beach, Calif., B. A. University of California, 1972. History of Art.
The Style of the Liber Floridus.

Gordon Porterfield, of Baltimore, Md., B. A. Towson State College, 1970. Writing Seminars.
Stooge.

Joseph Allen Pratt, of Port Neches, Texas, B. A. Rice University, 1970. History.

Michael Joseph Prenger, of Baltimore, Md., B. A. The Johns Hopkins University, 1973. Writing Seminars.
The Separate Life.

Carl Michael Rabbin, of Brooklyn, N. Y., B. A. University of Pennsylvania, 1971. Physics.
Approximating a Magnetic Field using Difference Calculus and Maxwell's Equations.

Day William Radebaugh, Jr., Farmington, Mich., B. A. Michigan State University, 1967. Philosophy.

David Dugald Redway, of St. Louis, Mo., A. B. Boston University, 1972. Writing Seminars.
The Duchess and Mr. Paugh.

Nura Resh, of Ramat-Hasharon, Israel. Social Relations.
Status Inconsistency, Satisfaction with Life and Their Relation to the Level of Stress.

Donald Zaff Rogers, of Charleston, W. Va., B. A. The Johns Hopkins University, 1973. Chemistry.

Susan Norris Rose, of Baltimore, Md., A. B. Cornell University, 1960. Psychology.

Margaret Deanne Rouse, of Port of Spain, Trinidad, B. A. University of the West Indies, 1971. History.

Rajkumari Rajasree Roy, of Rangamati, Bangladesh, A. B. Mount Holyoke College, 1973. Writing Seminars.
The Cow Ate the Waterlily.

Steven Arthur Sass, of Philadelphia, Pa., B. A. University of Delaware, 1970. History.

John Thomas Schlotterbeck, of Lynchburg, Va., B. A. The Johns Hopkins University, 1970; A. M. University of Michigan, 1972. History.

Barry Schreiber, of Montreal, Canada, B. A. Sir George Williams University, 1971. English.

Alan Bernard Schwartz, of Morristown, N. J., B. A. The Johns Hopkins University, 1974. Psychology.

Barbara Ellen Shapiro, of Chestnut Hill, Mass., A. B. Boston University, 1971. Psychology.

John Field Shepard, Jr., of Westboro, Mass., B. A. The Johns Hopkins University, 1974. German.

Terumi Shigematsu, of Tokyo, Japan, B. S. Washington College, 1971. Chemistry.

Jih-Min Shyr, of San Tung Province, China, B. S. National Tsing Hua University, 1970. Mathematics.

John Harrison Siegle, of Arlington, Va., A. B. Bowdoin College, 1970. Biology.

Anne Frances Waterman Sienkewicz, of Rockland, Maine, B. S. University of Maine, 1971. Romance Languages.

Eduardo Nestor Silva-Mejia, of Oaxaca Oaxaca, Mexico. Earth and Planetary Sciences.

Dale Hodges Silviria, of Los Angeles, Calif., B. A. University of California, 1972. English.

Carol Virginia Small, of Teaneck, N. J., B. A. Tufts University, 1965. History of Art.

Judson Lord Smith, Jr., of Baltimore, Md., B. A. University of Virginia, 1969. Writing Seminars.
The Ritualist.

Theophilus Sorrell, of New Orleans, La., B. S. Morgan State College, 1970. Chemistry.

John Charles Spencer, of Orillia, Ontario, Canada, B. A. University of Alberta, 1972. English.

Jean Stuart Stallings, of Arlington, Va., B. A. College of William and Mary, 1973. Classics.

Monika Alwine Steinhilber, of Wittenberg, East Germany, B. A. University of Massachusetts, 1972. German.

Ralph Howard Stern, of Cleveland, Ohio, B. S. Michigan State University, 1968. Biology.

Robert Charles Stewart, Jr., of Hyattsville, Md. Chemistry.

Leon Strauss, of Owings Mills, Md., B. A. The Johns Hopkins University, 1972. Mathematics.

David Charles Stromswold, of Washington, D. C., B. S. Richmond College, 1967. Physics.

Friedrun Auguste Sullivan, of Vienna, Austria. Romance Languages.

Bauer Enriquez Sumpio, of Manila, Philippines, B. A. The Johns Hopkins University, 1974. Chemistry.

John Richard Swanson, of Newark, Del., B. A. The Johns Hopkins University, 1972. Physics.

David Joseph Szalda, of Buffalo, N. Y., B. S. Manhattan College, 1972. Chemistry.

James Michael Tabor, of Newport News, Va., B. A. University of Vermont, 1970. Writing Seminars.
Junctures.

Wendy Emery Takacs, of Columbia, Md., A. B. Douglas College, 1969. Political Economy.

James Robert Taylor III, of Baltimore, Md., B. A. University of Maryland, 1973. Writing Seminars.
Maudrin Explains.

Frank Joseph Thomason, of Boise, Idaho, B. A. College of Idaho, 1970. History.

William Charles Trogler, of Baltimore, Md., B. A. The Johns Hopkins University, 1974. Chemistry.

Irene Heller Verner, of Philadelphia, Pa., B. A. University of Pennsylvania, 1969. Mathematics.

Paul Vernier, of Bethesda, Md., M. A. George Washington University, 1968. Philosophy.

Ramesh Ramchandra Waghmare, of Baroda, India, B. A. The Maharaja Sayajirao University of Baroda, India, 1959; M. A., 1961. Political Economy.

Marie Theresa Wallick, of Scranton, Pa., B. A. University of California, 1972. Psychology.

Charles Eugene Walsh, Jr., of Baltimore, Md., B. E. S. The Johns Hopkins University, 1971. Physics.
Selected Topics on Proportional Counters.

William Beatty Warner, of Montpelier, Vt. English.

Peter Warschawski, of Basel, Switzerland, B. A. The Johns Hopkins University, 1969; M. Ed., 1974. Psychology.

Carolyn Adams Watts, of Olympia, Wash., B. A. University of Washington, 1971. Political Economy.

Carroll Edwin Watts, of Virgilina, Va., B. A. Wake Forest University, 1973. Writing Seminars.

Tongue for One.

Michael Weingarten, of Silver Spring, Md., B. A. The Johns Hopkins University, 1973. Psychology.

Fa Wen, of Taipei, China, B. S. Tamkang College, China, 1967; M. S. University of Connecticut, 1971. Mathematical Sciences.

Nicholas Salter West, of Englewood, N. J., A. B. Columbia University, 1972. History.

Curtis Keith White, of Oakland, Calif., B. A. University of San Francisco, 1973. Writing Seminars.

Things Possible.

Peter John Whitehouse, of Baltimore, Md. Psychology.

Daniel Joseph Wilson, of Wausau, Wis., B. A. Wisconsin State University, 1972. History.

Dwight Davidson Wolkow, of San Bruno, Calif., B. A. Reed College, 1962; M. A. Columbia University, 1964. Political Economy.

Wayne David Woodward, of Baltimore, Md., B. A. The Johns Hopkins University, 1972. Writing Seminars.

Less than a Year's Worth.

Craig L. Woody, of Baltimore, Md., B. A. The Johns Hopkins University, 1973. Physics.

Margaret Parkinson Wright, of Baltimore, Md. History.

Roger Bigod and the Norman Kings.

Jack Benjamin Yates, of Ozark, Ark., B. A. University of Arkansas, 1970; Ph. D. The Johns Hopkins University, 1974. Psychology.

Duen Hsi Yen, of New York, N. Y., B. S. Rensselaer Polytechnic Institute, 1971. Biology.

Freda Elizabeth Yoder, of Salisbury, Pa., B. A. Goshen College, 1967. Biology.

Joseph Edward Zeman, of San Juan, Puerto Rico, B. S. Michigan State University, 1973. Physics.

DOCTORS OF SCIENCE

in The School of Hygiene and Public Health

Frederic Bass, of Duxbury, Mass., B. S. Antioch College, 1955; M. D. Western Reserve University School of Medicine, 1959; Sc. M. Harvard School of Public Health, 1966. Medical Care and Hospitals.

Smoking and the Use of Health Services.

Rafiqul Huda Chaudhury, of Dacca, Bangladesh, B. A. Dacca University, 1964; M. A. Punjab University, 1966; Sc. M. The Johns Hopkins University School of Hygiene and Public Health, 1972. Population Dynamics.

Relative Income and Fertility.

Edward S. Colby, of New York, N. Y., B. A. University of Illinois, 1961; M. D. The Chicago Medical School, 1966; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1968. Medical Care and Hospitals.

Health Status and the Availability of Health Services Systems Resources: A Multivariate Examination of the Relationship Between Health Services System Resources, Socio-Demographic Factors, and Mortality in the United States.

Andrew Wilbur Dahl, of Worcester, Mass., B. S. Clark University, 1968; M. P. A. Cornell University, 1970. Public Health Administration.

Interactive and Delphi Committee Processes: The Maryland Comprehensive Health Planning Advisory Council—A Comparative Case Study.

JoAnne Lesser Earp, of Baltimore, Md., B. A. Bryn Mawr College, 1965. Behavioral Sciences.

Older Married Women and Work: A Comparative Study of the Social, Psychological and Demographic Differences Between Paid Employees and Full-Time Housewives.

Ralph Waldo Hingson, of Pittsburgh, Pa., B. A. The Johns Hopkins University, 1969; M. P. H. University of Pittsburgh, 1970. Behavioral Sciences.

The Impact of Health Beliefs on Behavior During an Immunization Program in Rural Haiti 1972.

Soon-Ho Lee, of Seoul, Korea, B. S. College of Pharmacy, 1958; M. P. H. Seoul National University School of Public Health, 1961; Sc. M. The Johns Hopkins University School of Hygiene and Public Health, 1969. Pathobiology.

A Possible Respiratory Function for Membrane Carotenoids in Arthrobacter Citreus.

Ted Anthony Nawalinski, of Philadelphia, Pa., B. A. LaSalle College, 1965. Pathobiology.

Dynamics of Hookworm Parasitism in Children.

Vincent Paul Olivieri, of Fairview, N. J., B. A. Rutgers University, 1965; M. S. E. West Virginia University, 1968. Environmental Health.

The Mode of Action of Chlorine on f2 Bacterial Virus.

Carl Erick Olson, of Stockton, Calif., B. A. Williams College, 1962; M. S. University of Pacific, 1969. Pathobiology.

Host Responses in Rats Infected with *Strongyloides ratti.*

Michael William Pozen, of Baltimore, Md., B. A. Brandeis University, 1966; M. D. New Jersey College of Medicine, 1970. Medical Care and Hospitals.

Effects of Administrative Support and of Physician Education on Hospital Ambulatory Care.

Robert Sherrard Rew, of Pendleton, Oreg., B. S. Whitman College, 1966; M. S. Washington State University, 1968. Pathobiology.

Ultrastructural Study of the Intestinal Cell of *Schistosoma mansoni:* Developmental and Functional Examination.

Nasra Mahboob Shah, of Lahore, Pakistan, B. A. Kinnaird College, 1965; M. A. University of the Punjab, 1968. Population Dynamics.

Interspousal Communication and Agreement as Variables in the Study of Family Planning.

George Stuehler, Jr., of Baltimore, Md., M. B. A. Wharton College, 1966; B. E. S. The Johns Hopkins University, 1962; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1972. Public Health Administration.

An Analysis of the Interorganizational Relationship Involving Acute-Care General Hospitals in the Baltimore Area.

Dennis Clair Turner, of LaMesa, Calif., B. S. San Diego State College, 1970. Mental Hygiene.

The Vampire Bat: Hunting Behavior and Host Selection.

Nigel Keith Woolf, of Washington, D. C., B. A. George Washington University, 1966; Sc. M. The Johns Hopkins University School of Hygiene and Public Health, 1971. Mental Hygiene.

The Ontogeny of Bat Sonar Sounds: With Special Emphasis on Sensory Deprivation.

DOCTORS OF PUBLIC HEALTH

in The School of Hygiene and Public Health

Haroutune Krikor Armenian, of Beirut, Lebanon, B. S. American University of Beirut, 1964; M. D. American University of Beirut School of Medicine, 1968; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1972. Epidemiology.

The Relationship of Benign Prostatic Hyperplasia to Prostate Cancer. An Epidemiological Study.

Cecile DeSweemer, of Ghent, Belgium, M. D. State University of Ghent, 1962; Dr. T. H. Institute for Tropical Medicine, Antwerp, 1962; M. P. H. Institute for Hygiene and Social Medicine, 1965. International Health.

Growth of Morbidity.

Susan Hetherington Fischman, of Baltimore, Md., B. S. N. University of Michigan, 1957; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1965. Population Dynamics.

Factors Associated With the Decision of Unwed, Black Pregnant Adolescents to Deliver or Abort.

A. F. M. Atiqur Rahman Kahn, of Dacca, Bangladesh, L. M. F. Lytton Medical School, 1957; M. B. B. S. Dacca Medical College, 1961; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1965. Population Dynamics.

Relationship Between Child Mortality and Subsequent Fertility.

Richard Arthur Lindblad, of Rockville, Md., B. S. San Jose State College, 1961; M. S. University of Colorado, 1966. Mental Hygiene.

Self-Concept of Middle Socioeconomic Status Addicts: A Controlled Study.

Abraham M. Y. Nomura, of Honolulu, Hawaii, B. S. John Carroll University, 1962; M. D. Loyola Medical School, 1966; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1972. Epidemiology.

The Relationship of Estrogenic Preparations to Benign Breast Tumors.

Moyses Szklo, of Baltimore, Md., M. D. Medical School of the University of the State of Guanabara, 1963; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1972. Epidemiology.

The Relationship of Socia-Cultural Factors to Myocardial Infarction in White Women.

Caroline McCoy White, of Baltimore, Md., B. S. Columbia University, 1962; M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1964. Public Health Administration.

Patient Characteristics and Behavior of Nursing Personnel in Nursing Homes.

DOCTORS OF PHILOSOPHY

in The School of Hygiene and Public Health

Iqbal Alam Alam, of Mirpur Khas, Pakistan, B. Sc. Government Emerson College, 1961; M. A. University of Karachi, 1963. Population Dynamics.

The Relationship of Infant-Child Mortality on Fertility in Cebu, Philippines.

James Carlie Barrett, of Williamsburg, Va., B. S. College of William and Mary, 1969. Environmental Health.

Deoxyoligonucleotide Ethyl Phosphotriesters: A New Probe for The Structure and Function of Nucleic Acids.

Richard Leroy Greenstreet, of Washington, D. C., B. A. University of Minnesota, 1962; M. A. 1964. Biostatistics.

Multivariate Aspects of Finite Population Sampling Under Linear Models.

Prakash Lal Grover, of New Delhi, India, B. A. Punjab University College, 1958; M. A. Delhi School of Social Work, 1960, M. P. H. The Johns Hopkins University School of Hygiene and Public Health, 1970. Behavioral Sciences.

Decision-Making for Planned Fertility: A Study of Correlates of Fertility Behavior.

Arthur J. Hartz, of Farmington, N. Mex., B. A. Swarthmore College, 1966. Biostatistics.

Finding Prediction Equations Using Least Squares Regresion.

Patricia Minard, of Vienna, Va., B. A. Bryn Mawr College, 1969. Biochemical and Biophysical Sciences.

Immunological Studies with Murine Mastocytomas.

Wesley Lawton Schaible, of Alexandria, Va., B. A. State College of Iowa, 1963; M. S. P. H. University of North Carolina, 1966. Biostatistics.

Bias in the Estimation of Finite Population Parameters from Incomplete Data.

Frank Shanty, of Baltimore, Md., B. E. The Johns Hopkins University, 1943; M. S. 1953; M. S. University of Pittsburgh, 1960. Environmental Medicine.

Deposition of Ultra-Fine Aerosols in the Respiratory Tract of Human Volunteers.

John Kennison Stene, Jr., of Lafayette, In., B. A. Hanover College, 1968; M. D. The Johns Hopkins University School of Medicine, 1973. Environmental Medicine.

The Influence of Aortic Occlusion and Hypercapnia on Venous Return.

Russell Alvin Vincent, of Newport News, Va., A. A. Christopher Newport College, 1963; B. S. College of William and Mary, 1965. Environmental Health.

The DNA Precursor Pools of Cells Which Exhibit Differential Amounts of Unscheduled DNA Synthesis.

Chao Ling Wang, of Minneapolis, Minn., B. S. National Taiwan University, 1958; M. S. College of Chinese Culture, 1965; M. S. University of Minnesota, 1968. Biostatistics.

Least Squares with Inequality Constraints for Binary Data.

Huda Constantine Zurayk, of Beirut, Lebanon, B. A. American University of Beirut, 1965; M. A. Harvard University, 1966. Biostatistics.

Demand for Contraception in Pakistan: Dialogue Between Data and Theory.

DOCTORS OF PHILOSOPHY

in The School of Advanced International Studies

Aklog Birara, of Debre Tabor, Ethiopia, B. A. Earlham College, 1970; M. A. The Johns Hopkins University, S. A. I. S., 1972.

"The Compatibility with the United Nations Charter of Support by the Organization for African Unity (OAU) of Wars of Liberation."

Steven Charles Goldman, of New York, N. Y., B. A. The Johns Hopkins University, 1972; M. A. The Johns Hopkins University, S. A. I. S., 1973.

"The Conservative Critique of Containment: An Isolationist Alternative to Cold War Diplomacy."

Jess N. Hordes, of Queens, N. Y., B. A. Yeshiva University, 1963; M. A. The Johns Hopkins University, S. A. I. S., 1966.

"Evolving U.N. Approaches to and the Role of U.N. Machinery in the Arab-Israel Conflict: 1947-1956."

Vernon J. Kronenberg, of Garran ACT, Australia, B. A. Sydney University, 1964; M. A. Carleton University, 1971.

"Patterns of Defense Organization: Britain, Canada and the United States."

Simon Kent Newman, of London, England, B. A. Pembroke College, Oxford, 1968; M. A. University of Oxford, 1971.

"March 1939: Chamberlain's Diplomatic Revolution? The Origins of the British Guarantee to Poland."

Romano Romani, of Santa Monica, Calif., B. S. F. S. Georgetown University, 1964; M. A. The Johns Hopkins University, S. A. I. S., 1966.

"The Strategic Process and the Dynamics of Imperialism: The Impact of India on the Growth of Britain's Formal Empire in the 18th and 19th Centuries."

Ir Joris Jacob Clemens Voorhoeve, of the Hague, The Netherlands, M. A. Wageningen University, 1971, M. A. The Johns Hopkins University, S. A. I. S., 1972.

"The Foreign Policy of the Netherlands."

DOCTORS OF MEDICINE

in the Faculty of Medicine

Peter Courtland Agre, of Minneapolis, Minn., B. A. Augsburg College, 1970.

Philip Crawford Amrein, of Milford, Conn., B. A. Ohio Wesleyan University, 1970.

Stuart Brian Baker, of Baltimore, Md., B. S. City College of New York, 1970.

James Pepper Bennett, Jr., of St. Petersburg, Fla., B. S. University of Florida, 1970.

Howard Lysle Berg II, of Claude, Tex., B. A. Johns Hopkins University, 1971.

Benjamin David Bernstein, of Baltimore, Md., B. A. Johns Hopkins University, 1971.

Martin Lee Binstock, of Pittsburgh, Pa., B. A. Johns Hopkins University, 1971.

William Brener, of Chattanooga, Tenn., B. A. University of Virginia, 1970.

Mark Steven Brower, of Baltimore, Md., B. A. New York University, 1970.

James Russell Buck, of Belleville, Mich., B. S. Michigan State University, 1967; D. V. M. Michigan State University, 1968.

Peter David Byeff, of Baltimore, Md., B. A. University of Pennsylvania, 1970.

Gertrude Sandra Carter, of Detroit, Mich., B. S. Howard University, 1970.

Franklin Earl Chatham, of Meridian, Miss., B. A. Millsaps College, 1970.

Dominic Kui-Kong Cheung, of Hong Kong, B. A. Johns Hopkins University, 1971.

John Norris Childs III, of Philadelphia, Pa., B. A. Johns Hopkins University, 1970.

Mickey Yue Kwong Chiu, of New York, N. Y., B. S. E. Princeton University, 1969.

Jonathan Scott Coblyn, of East Meadow, N. Y., B. A. Johns Hopkins University, 1971.

Richard Allan Cole, of Newburyport, Mass., B. A. Tufts University, 1970.

Claude LeRoy Coleman, of Chicago, Ill., B. A. Johns Hopkins University, 1971.

Gary L. Conrad, of Rochester, N. Y., B. A. Williams College, 1970.

Patricia Katherine Coyle, of New York, N. Y., B. S. Fordham University, 1970.

Robert James Crouse, of Wisconsin Rapids, Wisc., B. A. Johns Hopkins University, 1971.

Jeffery Anthony Daisy, of Kingstown, St. Vincent, W. I., B. S. Yale College, 1970.

Elizabeth Hager Danish, of Johnstown, Pa., A. B. Vassar College, 1970.

James Louis Davis, of Washington, D. C., B. A. Johns Hopkins University, 1971.

Monte Anthony Del Monte, of Brookfield, Wisc., B. A. Johns Hopkins University, 1971.

Gary Richard Diamond, of Ardmore, Pa., B. A. Johns Hopkins University, 1970.

Henry Lawrence Dorkin, of Cherry Hill, N. J., B. S. Lehigh University, 1970.

Stuart Allen Engel, of Baltimore, Md., B. S. University of Maryland, 1970.

Stephen Carl Engelke, of Milwaukee, Wisc., B. A. University of Wisconsin, Madison, 1970.

Roger William Enlow, of Boise, Idaho, B. S. University of Idaho, 1970.

Aaron Samuel Fink, of Baltimore, Md., B. A. Franklin and Marshall College, 1970.

Jerry Allen Fogle, of Martinsburg, W. Va., B. A. Johns Hopkins University, 1971.

Peter Eric Gallerstein, of Bronx, N. Y., B. A. Johns Hopkins University, 1970.

Peter Francis Goyer, Jr., Baltimore, Md., B. S. University of Notre Dame, 1965; M. S. University of Delaware, 1968.

Robert Spencer Green, of Memphis, Tenn., B. A. Vanderbilt University, 1970.

Bruce Allen Guberman, of Cincinnati, Ohio, B. A. Johns Hopkins University, 1971.

Kevin Francis Hagan, of Brookfield, Conn., B. A. Johns Hopkins University, 1971.

Joan Harvey, of Baltimore, Md., B. A. Radcliffe College, 1970.

Suzanne Mulder Hill, of Kalamazoo, Mich., B. A. Johns Hopkins University, 1971.

Thomas J. Hirsch, of Baltimore, Md., B. A. Johns Hopkins University, 1971.

Kenneth R. Huff, of Indianapolis, Ind., B. A. Wabash College, 1970.

Charles Robert Inners, of York, Pa., B. A. Johns Hopkins University, 1971.

Martine Anne Jaworski, of Ottawa, Canada, B. A. McGill University, 1970.

David Raymond Jenkins, of Baltimore, Md., B. A. Johns Hopkins University, 1970.

Harriet Kang, of Catonsville, Md., B. A. Johns Hopkins University, 1971.

Edward Henry Klopp, of Baltimore, Md., B. S. M. E. University of Kentucky, 1966.

J. Parker Kurlinski, of Kingsville, Md., B. A. Williams College, 1970.

Myron S. Levey, of Erie, Pa., B. A. State University of New York at Buffalo, 1970.

Mark Henry Lipson, of Highland Park, Ill., B. A. Miami University (Ohio), 1970.

Alexander Graham Little III, of Valdosta, Ga., B. A. University of North Carolina, 1965.

Stephen Jay Marks, of Baltimore, Md., B. A. Cornell University, 1967; M. A. Yale University, 1968.

Alison J. McDonald, of Pittsburgh, Pa., B. A. Western College for Women, 1970.

Allen George Meek, of Wilton, Conn., B. A. Amherst College, 1970.

Walter Hilson Merrill, of Fort Walton Beach, Fla., B. A. University of the South, 1970.

John Russell Michael, of Hutchinson, Kan., B. A. University of Kansas, 1970.

Donald Bruce Milligan, of Bellevue, Wash., B. A. Sterling College, 1970.

Isaac Moore, of Madison, Fla., B. A. Florida A & M University, 1970.

Basil Sylvester Morgan, of May Pen, Jamaica, W. I., B. S. State University of New York at Albany, 1970.

Johanna Goldfarb Moskowitz, of Flushing, N. Y., B. A. Johns Hopkins University, 1971.

James B. Naciman, of Highland Park, Ill., B. A. University of Illinois, 1970.

Mark W. Oberle, of Croton-on-Hudson, N. Y., B. A. Harvard College, 1970.

Diana Louise Obrinsky, of Staten Island, N. Y., B. Sc. McGill University, 1969.

Pamela Regine Oster, of Fairfield, Conn., B. A. Wellesley College, 1970.

John Clayton Patterson, of Willingboro, N. J., B. A. Yale University, 1967; M. A. Harvard University, 1968.

Manuel M. Perez, of Gary, Ind., B. A. Indiana University, 1970.

Henry Baker Perry III, of Greensboro, N. C., B. A. Duke University, 1968. M. P. H. Johns Hopkins University, 1971.

John Douglas Pinney, of Brockton, Mass., B. A. Princeton University, 1970.

Deborah Price, of Somerville, N. J., B. A. Barnard College, 1970.

Dean Paul Rieger, of Morris Plains, N. J., B. S. University of Michigan, 1970.

Kenneth Peter Rosenthal, of Baltimore, Md., B. A. Harvard College, 1967; M. S. I. A. Carnegie-Mellon University, 1968.

John Thomas Roumasset, of San Carlos, Calif., B. A. University of California at Berkeley, 1970.

Darrell John Salk, of La Jolla, Calif., B. A. Stanford University, 1969.

Paul David Schneider, of Yonkers, N. Y., B. S. Yale University, 1970.

Robert Turner Schooley, of Birmingham, Ala., B. S. Washington & Lee University, 1970.

Gilbert Berry Schumann, of Galesburg, Ill., B. S. Hiram Scott College, 1970.

Steven Edward Selden, of West Hartford, Conn., B. A. Johns Hopkins University, 1971.

Nancy Ann Serrell, of Garden City, N. Y., B. A. Wells College, 1970.

Robert D. Shuman, Jr., of Waynesboro, Ga., B. S. Furman University, 1970.

Michael Allan Silver, of Des Moines, Iowa, B. A. Harvard College, 1970.

Robert Charles Snip, of San Antonio, Tex., B. A. Harvard College, 1970.

Jeffery C. Spencer, of Baltimore, Md., B. A. Williams College, 1970.

James Leonard Speyer, of Flushing, N. Y., B. A. Harvard College, 1970.

Burt Anthony Stanga, of Salt Lake City, Utah, B. A. University of Utah, 1970.

Stephen E. Steinberg, of Wantagh, N. Y., B. A. Cornell University, 1970.

Robert Kenneth Stuart, of New Orleans, La., B. S. Georgetown University, 1970.

Charles Bradley Sullivan, of Cambridge, Mass., B. A. Boston University, 1969.

Brian Felix Sweeney, of Lowell, Mass., B. A. Dartmouth College, 1970.

Henry Dixon Turner, of Melrose, Mass., B. A. Dartmouth College, 1970.

Mark Conrad Valentine, of Harrisville, W. Va., B. A. West Virginia University, 1970.

Bert Vogelstein, of Baltimore, Md., B. A. University of Pennsylvania, 1970.

Michael Jon Vovakes, of Mesa, Ariz., B. A. Arizona State University, 1970.

Robert Marshall Ward, of Ada, Okla., B. S. Southern Methodist University, 1970.

Lawrence Jay Wasser, of Linden, N. J., B. S. Yale University, 1970.

Daniel Mark Weinstock, of Baltimore, Md., B. A. Johns Hopkins University, 1971.

Ann Marie Stephenson Welch, of Baltimore, Md., B. S. Duke University, 1959; M. A. Duke University, 1960.

Robert Dennis White, of Buchanan, Mich., B. A. Johns Hopkins University, 1972.

A. James Whitmore III, of Pittsburgh, Pa., B. A. Lincoln University, 1969.

Elizabeth Louise Wiley, of Baltimore, Md., B. A. Sterling College, 1970.

Robert James Williamson, of Niagara Falls, N. Y., B. S. Niagara University, 1970.

Herbert Alexander Wilson III, of Newport News, Va., B. A. Dartmouth College, 1969; B. A. Trinity College, Cambridge University, 1971.

Samuel Hyams Zimmern, of Pensacola, Fla., B. A. Vanderbilt University, 1970.

Stephen Randolph Zukin, of Philadelphia, Pa., B. A. Haverford College, 1970.

DOCTORS OF PHILOSOPHY

in the Faculty of Medicine

José Alvarez-Chirinos, of Lima, Peru, B. S. Cayetano Heredia Peruvian University, 1969. Physiological Chemistry.

A Calorimetric Investigation Of The Thermodynamic Stability Of Nucleic Acids And Their Interaction With Solvents.

Raymond Philip Bailey, of San Bernardino, Calif., B. A. University of California at Riverside, 1966; M. A. California State College at Long Beach, 1969. Anatomy.

Electron Microscopic Observations On The Embryonic And Fetal Development Of Human Lymph Nodes.

James Anthony Braatz, of Baltimore, Md. Physiological Chemistry.

The Role of Polysaccharide In The Secretion Of Protein By Micrococcus Sodonesis.

Maurice Kent Gately, of Syracuse, Nebr., B. A. Johns Hopkins University, 1968. Microbiology.

Physicochemical and Immunologic Studies Of Guinea Pig Lymphotoxin.

Hubert Whitney Gerry, of Baltimore, Md., B. S. Lafayette College, 1964; M. D. Jefferson Medical College, 1968. Microbiology.

Studies On Adeno-Associated Virus Deoxyribonucleic Acid.

Paul Geshelin, of Los Angeles, Calif., B. A. Johns Hopkins University, 1969; M. D. Johns Hopkins University, 1972. Microbiology.

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Louis Loeffler III, of Oklahoma City, Okla., B. S. Oklahoma State University, 1968. Biomedical Engineering.

A Model Of Mammalian Heart Muscle In Isometric Contraction.

Mary Lou Oster-Granite, of Clinton, Okla., B. A. University of Rochester, 1969. Anatomy.

The Pathogenesis Of Rat Virus-Induced Cerebellar Hypoplasia In The Syrian Hamster, Mesocricetus Auratus. A Light, Golgi, And Electron Microscopic Study.

Candace Dorinda Beebe Pert, of Wantagh, N. Y., A. B. Bryn Mawr College, 1970. Pharmacology and Experimental Therapeutics.

The Opiate Receptor: Its Demonstration, Properties And Distribution.

Donald Walter Peterson, of Duluth, Minn., B. S. University of Minnesota, 1962; M. D. University of Minnesota, 1964. History of Medicine.

Galen's "Therapeutics To Glaucon" And Its Early Commentaries.

Kent Westbrook Wilcox, of Winston-Salem, N. C., B. S. Duke University, 1967. Microbiology.

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Anne Buckingham Young, of Baltimore, Md., A. B. Vassar College, 1969. Pharmacology and Experimental Therapeutics.

Strychnine Binding Associated With Glycine Receptors Of The Central Nervous System.

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Adeniran Adeboye, of Gbongan, Nigeria, B. Sc. University of Ibadan, 1967; M. A. The Johns Hopkins University, 1972. Mathematics.

On the Eigenfunctions of the Laplacian on Certain Riemannian Manifolds.

Yash Paul Aneja, of Haryana, India, B of Statistics Indian Statistical Institute, 1966; M of Statistics, 1967. Mathematical Sciences.

On A Class of Set Covering Problems.

Lynne Marie Musgrave Angerer, of Columbus, Ohio, B. S. Ohio State University, 1966; M. Sc. 1967. Biology.

Physical and Chemical Studies on the Structure of Whole and Selectively Deproteinized Deoxyribonucleoproteins from Calf Thymus.

Robert Clifford Angerer, of Columbus, Ohio, B. S. Ohio State University, 1966. Biology.

An Analysis of the Repeated DNA Sequences Transcribing RNA in Mouse Liver.

Lee Terry Bacheler, of Williamsville, N. Y., B. A. Pembroke College, 1968. Biology.

An Analysis of Transcription from Isolated Chromatin.

Nathan Bark, of Baltimore, Md., B. A. The Johns Hopkins University, 1950; M. Ed., 1966. Education.

Plato's Educational Stance Viewed from the Perspective of Authority.

Henry Jay Becker, of Baltimore, Md., B. A. Pomona College, 1966. Social Relations.

The Social Structure of School Board Recruitment.

Max Dial Bennett, of West Lafayette, Ind., B. A. Eastern New Mexico University, 1966; M. H. A. University of Michigan, 1968; M. A. The Johns Hopkins University, 1973. Poltical Economy.

Health Insurance and Price Distortions.

Allen Berkowitz, of Brooklyn, N. Y., B. S. Brooklyn College, 1966; M. S. E. The Johns Hopkins University, 1967. Mathematical Sciences.

Operational Decisions in Outpatient Clinics.

Charles Chester Berry, of Hanover, N. H., B. A. Dartmouth College, 1969. Social Relations.

Changing Employers and Changing Jobs: *The Career Patterns of Black and White Men.*

Jeffrey Marc Berry, of Fresno, Calif., A. B. University of California, 1970; M. A. The Johns Hopkins University, 1972. Political Science.

Representatives of the People: The Organization and Operation of Public Interest Groups.

Johannes Jacobus Bisschop, of Heemskerk, The Netherlands, B. A. University of Oregon, 1967; M. B. A., 1969. Mathematical Sciences.

Solution Representations for Nonlinear Systems and the Controllability Problem.

Margaret Emma Beatrice Boeckmann, of Floral Park, N. Y., A. B. Barnard College, 1964; M. A. T. The Johns Hopkins University, 1965. Social Relations.

The Contribution of Social Research to Social Policy Formulation: A Study of the New Jersey Income Maintenance Experiment and the Family Assistance Plan.

John Kirkwood Bonner, of Baltimore, Md., B. S. Wichita State University, 1961; M. S. University of Michigan, 1964. History of Science.

Amedeo Avogadro: A Reassessment of his Research and its Place in Early Nineteenth Century Science.

Robert Francis Bonner, of Houston, Texas, B. A. William Marsh Rice University, 1969. Biophysics.

Intensity Fluctuation Autocorrelation Studies of Contracting Frog Striated Muscle.

Christine Ellen Bose, B. A. Wagner College, 1969. Social Relations.

Women and Jobs: *Sexual Influences on Occupational Prestige.*

John Thomas Bray, of Baltimore, Md., B. S. Rose Polytechnic Institute, 1967; M. A. The Johns Hopkins University, 1970. Earth and Planetary Sciences.

Behavior of Phosphate in the Interstitial Waters of Chesapeake Bay Sediments.

Julian William Breslow, of Chicago, Ill., B. A. New York University, 1968; M. A. The Johns Hopkins University, 1970. English.

Sketches by Boz: *Dickens' First Formulation of the Problem of Communication.*

Kenneth Gerard Brown, of Falls Church, Va., A. B. Duke University, 1962. Mathematical Sciences.

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Robert John Brugger, of Washington, D. C., B. A. University of Notre Dame, 1965; M. A. University of Maryland, 1967; M. A. The Johns Hopkins University, 1971. History.

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Robert Bruce Brundrett, of Baltimore, Md., B. A. The Johns Hopkins University, 1969. Chemistry.

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Daniel Joseph Brunelle, of Miami, Fla., B. S. Emory University, 1970; M. A. The Johns Hopkins University, 1972. Chemistry.

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David Gary Burke, of Bellevue, Ohio, B. A. Capital University, 1959; B. D. Evangelical Lutheran Seminary, Capital University, 1963; M. Th. Princeton Theological Seminary, 1964. Near Eastern Studies.

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Sara Lee Silberman Burlingame, of Quaker Hill, Conn., B. A. Pembroke College, 1963; M. A. The Johns Hopkins University, 1965. History.

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Jeffrey Ralph Butz, of Akron, Ohio, B. A. Kenyon College, 1969; M. A. The Johns Hopkins University, 1973. Mathematics.

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Alfonso Caramazza, of Aragona, Italy, B. A. McGill University, 1970; M. A. The Johns Hopkins University, 1972. Psychology.

Comprehension Strategies in Language Acquisition.

Peter Edgerton Carels, of Oxford, Ohio, A. B. Oberlin College, 1966; M. A. The Johns Hopkins University, 1967. German.

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Suzanne Gearhart Carroll, of Laguna Beach, Calif., A. B. Cornell University, 1968; M. A. The Johns Hopkins University, 1972. Romance Languages.

Systems in Conflict: The Work of the Abbé Prévost as a Critique of Enlightenment Ideologies.

Paul Foley Casey, of Norwich, Conn., B. S. University of Notre Dame, 1964; M. A. University of North Dakota, 1968. German.

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Thomas Adam Cebula, of Plymouth, Pa., B. S. Wilkes College, 1968. Biology.

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Jack Richard Censer, of Memphis, Tenn., A. B. Duke University, 1968. History.

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Harvey Chisick, of London, England, B. A. University of British Columbia, 1968. History.

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I-Ming Chou, of Hsin-Chu, Taiwan, China, B. S. National Taiwan University, 1968. Earth and Planetary Sciences.

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Arun Chowdry, of Calcutta, India, B.Tech. Indian Institute of Technology, 1969. Electrical Engineering.

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Diane Christian, of Buffalo, N. Y., B. A. Nazareth College of Rochester, 1961; M. A. The Johns Hopkins University, 1965. English.

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Richard Lee Church, of Salinas, Calif., B. S. Lewis and Clark College, 1970. Environmental Engineering.

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Susan Louise Walker Craig, of Catonsville, Md., B. A. University of Pennsylvania, 1967. Biology.

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David Cwi, of Chicago, Ill., B. A. Cornell College, 1967; M. A. The Johns Hopkins University, 1971. Philosophy.

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Paul Camille DeGrauwe, of Brussells, Belgium, Licentiaat-Doctorandus in De Economische Wetenschappen-Catholic University, 1969. Political Economy.

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Javier Marquez Diez-Canedo, of Mexico City, Mexico, M. S. University of London, 1967. Mathematical Sciences.

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Matthew Isle Dobrow, of Teaneck, N. J., A. B. Harvard College, 1968; M. D. The Johns Hopkins University, 1972. Psychology.

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Berten E. Ely III, of Cheyney, Pa., B. S. Tufts University, 1969. Biology.

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Saul Feinman, of New York, N. Y., B. A. Brooklyn College, 1969. Social Relations.

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John Patrick Ferraris, of Stamford, Conn., A. B. St. Michael's College, 1969; M. A. The Johns Hopkins University, 1971. Chemistry.

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Thomas G. Finn, of Pittsburgh, Pa., B. S. Manhattan College, 1966; M. A. The Johns Hopkins University, 1969. Physics.

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Joan Martha Finucci, of Warren, R. I., B. S. University of Rhode Island, 1961; M. A., 1969; A. M. Bowdoin College, 1967. Education.

Familial Patterns and Genetic Analysis of Specific Reading Disability.

Joe Gaines Foreman, of Norman, Okla., B. S. University of Oklahoma, 1962; M. A., 1967. Electrical Engineering.

Differential Search Games with Mobile Hider.

John Gordon Fox, of Glasgow, Scotland, B. A. University of California, 1969. Social Relations.

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Kenneth Roberts Fox, of Silver Spring, Md., B. A. Franklin and Marshall College, 1969; M. S. E. The Johns Hopkins University, 1973. Mathematical Sciences.

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Lynn Hussey Fox, of Orlando, Fla., B. S. E. University of Florida, 1965; M. Ed., 1968; M. A. The Johns Hopkins University, 1973. Psychology.

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John Duncan Frantz, of Goleta, Calif., B. A. University of California, 1968. Earth and Planetary Sciences.

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Edward Herbert Friedman, of Richmond, Va., B. A. University of Virginia, 1970; M. A. The Johns Hopkins University, 1971. Romance Languages.

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Lawrence Benedict Fuller, of Bloomsburg, Pa., B. A. Dartmouth College, 1958; A. M. Columbia University, 1963. Education.

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David Barry Gaspar, of St. Lucia, West Indies, A. A. College of the Virgin Islands, 1966; M. A. The Johns Hopkins University, 1972. History.

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Jerry Goldman, of Baltimore, Md., B. A. Brooklyn College, 1966. Political Science.

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Ronald Neil Goldman, of Adelphi, Md., B. S. Massachusetts Institute of Technology, 1968; M. A. The Johns Hopkins University, 1972. Mathematics.

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Helen Jefferson Goodwin, of Norfolk, Va., B. S. Hampton Institute, 1952; M. A. New York University, 1956. Education.

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Sandra Lenora Harvey Graziano, of New Orleans, La., B. S. Louisiana State University in New Orleans, 1963; M. S. Syracuse University, 1966. Biology.

Purification and Chemical Analysis of Chromosomal Nonhistone Proteins.

Michael Robert Greco, of San Jose, Calif., B. A. San Jose State College, 1968. History.

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Janet Darley Griffith, of Philadelphia, Pa., A. B. Radcliff College, 1963. Social Relations.

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William Daniel Gunter, of Laramie, Wyo., B. S. University of New Brunswick, 1964; M. S., 1967. Earth and Planetary Sciences.

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Stephen Charles Halpern, of New York, N. Y., B. A. City College of New York, 1967; M. A. The Johns Hopkins University, 1970. Political Science.

The Role of Police Employee Organizations in Police Departments in Three Cities.

Bruce Wayne Hamill, of Baltimore, Md., B. A. Tufts University, 1964; M. A. The Johns Hopkins University, 1972. Psychology.

An Investigation of the Rhythmic Nature of Sentences.

Susan Webb Hammond, of Washington, D. C., B. A. Bryn Mawr College, 1954; M. A. The Johns Hopkins University, 1970. Political Science.

The Personal Staffs of Members of the U.S. House of Representatives.

Caroline Catherine Moorhouse Hannaway, of Melbourne, Australia, B. A. University of Melbourne, 1966. History of Science.

Medicine, Public Welfare and the State in Eighteenth Century France: The Société Royale de Médecine of Paris (1776-1793).

Vascar Godfrey Harris, of Lynchburg, Va., B. E. S. The Johns Hopkins University, 1962; M. S. E., 1965. Mechanics and Materials Science.

Experimental Studies in a Field of Nearly Homogenous Sheared Turbulent Flow.

Tatsuo Hatta, of Tokyo, Japan, B. A. International Christian University, Japan, 1966; M. A., 1968. Political Economy.

A Theory of Piecemeal Policy Recommendations.

Clinton Seymour Herrick, of Atlanta, Ga., B. A. Catholic University of America, 1959; M. A. Emory University, 1962. Social Relations.

Social and Economic Consequences of the Functional Specialization of Communities: *An Exploratory Study of Functional Specialization as a Causal Variable.*

Rex Paul Hjelm, Jr., of El Toro, Calif., B. S. University of California, 1968. Biology.

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Chih-ming Ho, of Taipei, China, B. S. National Taiwan University, 1967. Mechanics and Materials Science.

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Daniel Owsley Hogenauer, of Potsdam, N. Y., B. S. Haverford College, 1964. Environmental Engineering.

A Search Algorithm for the Concave Location-Allocation Problem.

Stephen Trygve Holl, of Annapolis, Md., B. S. United States Naval Academy, 1967. Mathematical Sciences.

Efficient Solutions to a Multicriteria Linear Program with Application to an Institute of Higher Education.

Richard Marc Holzman, of Laguna Niguel, Calif., A. B. Columbia University, 1966; M. A. The Johns Hopkins University, 1971. Philosophy.

" . . . to endeavor peace . . .": An Examination of the Moral and Civil Philosophy of Thomas Hobbes.

Dennis Ray Horn, of Independence, Mo., B. S. E. Princeton University, 1964. Environmental Engineering.

The Analysis and Simulation of Storm Exteriors for Baltimore, Maryland.

Riaz Hussain, of Gujranwala, Pakistan, B. S. Forman College, Pakistan, 1954; M. S. University of the Punjab, Pakistan, 1956. Physics.

The Spectra of Dysprosium IV and Holmium III.

Carol Frances Jacobs, of New York, N. Y., A. B. Cornell University, 1964; M. A., 1968. Humanities Center.

The Dissimulating Harmony: Readings of Nietzsche, Artaud, Rilke, and Benjamin.

Patricia Maude Pearce Jones, of New York, N. Y., A. B. Oberlin College, 1969. Biology.

Rabbit Lymphocyte Membrane Immunoglobulins and Their Relationship to Precursor Cell Potential.

Daniel Patrick Keating, of Linthicum, Md., B. A. College of the Holy Cross, 1971; M. A. The Johns Hopkins University, 1973. Psychology.

Precocious Cognitive Development at the Level of Formal Operations.

Verne Franklin Kemerer, Jr., of Frederick, Md., B. A. University of South Florida, 1969. Biology.

Time Dependent Fluorescence Anisotrophy Studies on Phosphofructokinase Purified from E. coli.

Richard John Kent, Jr., of Los Angeles, Calif., B. A. Loyola University of Los Angeles, 1969; M. A. The Johns Hopkins University, 1971. History.

Alfred Stieglitz and the Maturation of American Culture.

Jochen Kleinschmidt, of Kassel Wilhelmshoehe, Germany. Biophysics.

Light and Dark Adaptation in Single Gekko gekko Photoreceptors.

Dorian Brooks Kottler, of New Haven, Conn., A. B. Radcliffe College, 1962; M. A. The Johns Hopkins University, 1969. History of Science.

Jean Senebier and the Emergence of Plant Physiology, 1775-1802: from Natural History to Chemical Science.

Mary Ann Yeager Kujovich, of Conrad, Mont., A. B. Middlebury College, 1967; M. A. T. The Johns Hopkins University, 1968; M. A., 1971. History.

The Dynamics of Oligopoly in the Meat Packing Industry; an Historical Analysis, 1875-1912.

Dennis Earl Leister, of Satellite Beach, Fla., B. S. Yale University, 1968. Biology.

Physical Properties and Protein Constituents of Cytoplasmic and Mitochondrial Ribosomes of Xenopus Laevis.

Wayne Edward Lenik, of Unionville, Conn., B. A. Trinity College, 1969; M. A. The Johns Hopkins University, 1971. Romance Languages.

The Commedie of Italo Svevo: The Dramatic Works of a Novelist.

Marcel Joseph Leroy, of Sydney, Nova Scotia, Canada, Diploma Free University of Brussels, 1964; M. A. The Johns Hopkins University, 1967. International Studies.

Population and International Politics.

Carol Lynn Kayn LeVine, of Laurel, Md., B. A. Queens College of the City University of New York, 1967; A. M. University of Michigan, 1969; M. A. The Johns Hopkins University, 1971. Romance Languages.

The Verse Epistle in Spanish Poetry of the Golden Age.

Joseph Libertson, of Pittsford, N. Y., B. A. Northwestern University, 1968; M. A. The Johns Hopkins University, 1974. Romance Languages.

Georges Bataille and Communication.

Kuo-Chin Lin, of Taichung, Taiwan, B. S. Tunghai University, Taiwan, 1962; M. A. The Johns Hopkins University, 1973. Chemistry.

Some Ion-Molecule Reactions of B^+ and F^+.

James Miller Lindenberger, of Mt. Pleasant, Tenn., B. A. Southwestern at Memphis, 1962; B. D. Union Theological Seminary in Virginia, 1966. Near Eastern Studies.

The Aramaic Proverbs of Ahiqar.

Samuel Alton Livingston, of Baltimore, Md., B. A. University of Chicago, 1962; M. Ed. University of Pittsburgh, 1964. Education.

Classical Test Theory for Criterion-Referenced Tests.

Michael Rudolph Loken, of LeSueur, Minn., B. A. St. Olaf College, 1967; M. A. The Johns Hopkins University, 1969. Biology.

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Robert Russell Love, of Lonaconing, Md., B. A. The Johns Hopkins University, 1970. Mathematical Sciences.

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Paul William Lutzker, of Washington, D. C., A B. University of Pennsylvania, 1965; M. A. The Johns Hopkins University, 1967. Political Science.

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Patrick James Magrath, of Park Forest, Ill., B. A. Wabash College, 1968. International Studies.

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Mary Louise Biggar Main, of Arnold, Md., B. A. St. John's College, 1965. Psychology.

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James William Male, of Schenectady, N. Y., B. S. Union College, 1968. Environmental Engineering.

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Jill Margo Carlton Manacorda, of New York, N. Y., A. B. Cornell University, 1964; M. A. The Johns Hopkins University, 1967. Romance Languages.

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David Mandelbaum, of Bogota, Colombia, B. S. Fairleigh Dickinson University, 1966; M. A. The Johns Hopkins University, 1969. Physics.

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Jacob Osias Maos, of Haifa, Israel, B. A. Israel Institute of Technology, 1957. Geography.

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Kenny Ralph Marotta, of St. Louis, Mo., A. B. Harvard University, 1970; M. A. The Johns Hopkins University, 1972. English.

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Aurelio Mattei, of Osogna, Switzerland, Diploma University of Freiburg, Switzerland, 1966. Political Economy.

An Intertemporal Model of Consumer Behavior.

John Russell Mayfield, of Lubbock, Texas, A. B. Columbia University, 1968; M. A. The Johns Hopkins University, 1971. History.

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Frederic Breed Mayo, Jr., of Gardiner, N. Y., B. A. Amherst College, 1966. Education.

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Richard Allen Melanson, of Woodbridge, N. J., A. B. Rutgers University, 1966. International Studies.

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David Henry Meyer, of Arlington, Va., B. S. Ohio State University, 1962. International Studies.

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Michael Jay Minot, of Harrison, N. Y., B. A. New York University, 1968; M. A. The Johns Hopkins University, 1972. Chemistry.

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George Paul Moeckel, of Cockeysville, Md., B. S. Rensselaer Polytechnic Institute, 1963. Mechanics and Materials Science.

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Thomas Gordon Moore, of Baltimore, Md., B. S. Carnegie-Mellon University, 1969. Mathematical Sciences.

The Central Cutting Plane Algorithm.

Kathryn Pauly Morgan, of Sheboygan, Wis., B. A. Alverno College, 1965; M. A. The Johns Hopkins University, 1969. Philosophy.

Merleau-Ponty's Criticism of Descartes: An Evaluation.

Francis Edward Munley, of Washington, D. C., B. S. University of Scranton, 1962. Physics.

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Nicholas Muzyczka, of Irvington, N. J., B. A. Antioch College, 1969. Biology.

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Joyce Elizabeth Sander Myers, of Falls Church, Va., A. B. Duke University, 1969. Biology.

The Induction of a Conformational Change in an Enzyme by Moderate Concentrations of Glycerol.

Robert John Nelson, of Windsor, Ontario, B. A. Ohio State University, 1966; M. A., 1968. History of Art.

Martin Chambiges and the Development of Flamboyant Architecture.

Harold Wayne Nesbitt, of Vancouver, Canada, B. A. Carleton University, Canada, 1967. Earth and Planetary Sciences.

The Study of Some Mineral-Aqueous Solution Interactions.

Robert Bruce Ochsman, of Silver Spring, Md., B. A. University of North Carolina, 1969; M. A. The Johns Hopkins University, 1971. Psychology.

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Bruce James O'Connor, of Lower Lake, Calif., B. A. University of California, 1967; M. A. The Johns Hopkins University, 1969. Earth and Planetary Sciences.

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Susan Louise Oleszko, of Dearborn, Mich., B. S. Purdue University, 1966. Biology.

On the Morphology of the (Photosynthetic) Coupling Factor on Spinach Chloroplast Lamellae: A Novel Method for its Visualization in Plastic-Embedded Material.

Hasan Olgun, of Ankara, Turkey, B. S. Middle East Technical University, 1966. Political Economy.

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Walter Jay Pakter, of New York, N. Y., B. A. City College of New York, 1965; M. A. The Johns Hopkins University, 1969. History.

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Billy Jerald Parkhill, Jr., of Cooper, Texas, B. S. East Texas State College, 1968. Chemistry.

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Robert Neil Parrish, of Lake Mohegan, N. Y., B. A. San Jose State College, 1967. Psychology.

Interactive Communication in Team Problem Solving as a Function of Two Educational Levels and Two Communication Modes.

Dimitrios A. Plionis, of Athens, Greece, Diploma National Technical University of Athens, 1965; M. S. University of Alabama, 1970. Mathematical Sciences.

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Roger Luc Poirier, of Paris, France, Baccalaureat University of Paris, 1957; M. A. Western Reserve University, 1968; M. A. The Johns Hopkins University, 1971. Romance Languages.

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Paul S. Polyzos, of Athens, Greece, Mechanical and Electrical Engineer's Diploma The National Technical University of Athens, 1963. Mathematical Sciences.

Optimal Partitioning of Discrete Point Sets with Applications in Location Theory and Cluster Analysis.

Mu-ming Poo, of Taiwan, China, B. S. National Tsing Hua University, 1970. Physics.

Molecular Motion of Rhodopsin in the Photoreceptor Membrane.

Truman Wayne Prevatt, of Wannamacker, Ky., B. S. Purdue University, 1969. Mathematics.

Asymptotic Integration and Singular Boundary Value Problems for Ordinary Differential Equations.

Wilfried E. Prewo, of Sersheim, West Germany, A. B. Grinnell College, 1970; M. A. The Johns Hopkins University, 1973. Political Economy.

A Multinational Interindustry Gravity Trade Model for the European Common Market.

Lewis Robert Pyenson, of Kirkwood, N. J., B. A. Swarthmore College, 1969. History of Science.

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Ronald Edward Pyle, of Dallas, Texas, B. S. University of Texas, 1969; M. A. The Johns Hopkins University, 1972. Chemistry.

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Carl Allen Rapp, of Oak Park, Ill., A. B. Emory University, 1968; M. A. The Johns Hopkins University, 1970. English.

William Carlos Williams and Romanticism.

Robert Louis Rubin, of Freeport, N. Y., B. S. Cornell University, 1967. Biology.

On the Self-Assembly of Nucleohistone.

Randolph Paul Runyon, of Maysville, Ky., M. A. The Johns Hopkins University, 1973. Romance Languages.

Délire: to read *Delie.*

William Alfred Sampson, of District Heights, Md., B. A. Howard University, 1968; M. A. Universiy of Wisconsin-Milwaukee, 1969. Social Relations.

The Relative Importance of Ascribed and Achieved Variables as Family Social Status Determinants.

Steven Csaba Scheer, of Evansville, Ind., A. B. John Carroll University, 1967; M. A. 1968; M. A. The Johns Hopkins University, 1970. English.

Fiction as the Theme of Fiction: *Aspects of Self-Reference in Hawthorne, Melville, and Twain.*

Jay Raymond Sculley, of Lexington, Va., B. S. Virginia Military Institute, 1962; M. S. E. The Johns Hopkins University, 1970. Environmental Engineering.

Mathematical Models of Military Water Supply Systems.

Robert James Semper, of Lanham, Md., B. S. Moravian College, 1968; M. A. The Johns Hopkins University, 1972. Physics.

Low Temperature Magnetic Studies of Ultrathin Iron Films.

Jean Ramsay Simons, of Allentown, Pa. Chemistry.

Stereochemical Studies of Proton Loss During Thermal and Electron Impact-Induced 1, 3-Eliminations.

Sirkka Esteri Sinkkonen, of Helsinki, Finland, M. A. University of Helsinki, 1966. Social Relations.

Marital Happiness in the Modern and Traditional Marriage: A Conceptual Analysis and an Empirical Study.

Fred Albert Skellie III, of Decatur, Ga., B. S. Georgia Institute of Technology, 1969; M. A. The Johns Hopkins University, 1971. Psychology.

Political Belief Systems, Issues, Candidates, and Youth.

William Robert Sladek, of Felton, Pa., B. D. Maryknoll Seminary, 1964; M. Th., 1965. Near Eastern Studies.

Inanna's Descent to the Netherworld.

Benjamin Thomas Smith, of New York, N. Y., B. S. Michigan State University, 1959; M. A. Cornell University, 1963. Mathematical Sciences.

Nash Equilibria in a Sealed Bid Auction.

Derald Glen Smith, of Missoula, Mont., B. A. Montana State University, 1965; M. A., 1966. Geography.

Aggradation and Channel Braiding in the North Saskatchewan River, Alberta, Canada.

Winthrop Whitman Smith, Jr., of Baltimore, Md., B. E. S. The Johns Hopkins University, 1965; M. S. E. E. Case Institute of Technology, 1967. Electrical Engineering.

A Structure Theory for a Class of Nonlinear Systems.

Robert Lipford Snyder, of Atlanta, Ga., B. S. Georgia Institute of Technology, 1965; M. A. The Johns Hopkins University, 1969. Mathematics.

Vector Invariants for the Classical Groups.

Elizabeth Victoria Spelman, of Amherst, Mass., B. A. Wellesley College, 1966. Philosophy.

Other Minds: Issues of Knowledge and Language.

Gabrielle Michele Schupf Spiegel, of Baltimore, Md., B. A. Bryn Mawr College, 1964; M. A. T. Harvard University, 1965; M. A. The Johns Hopkins University, 1970. History.

Studies in the Chronicle Tradition of Saint-Denis.

James Preston Stone, of Roanoke, Va., B. S. University of Virginia, 1967; M. A. The Johns Hopkins University, 1968. Chemistry.

Laser Interactions with Multilevel Chemical Systems.

Karen Lever Sullivan, of Minneapolis, Minn., B. A. University of Minnesota, 1966. English.

The Muse of Fiction: Fatal Women in the Novels of W. M. Thackeray, Thomas Hardy, and John Fowles.

Dorothy Garrison Swift, of Saunderstown, R. I., B. A. Swarthmore College, 1961; M. A. The Johns Hopkins University, 1967. Earth and Planetary Sciences.

Vitamin B_{12} as an Ecological Factor for Centric Diatoms in the Gulf of Maine.

Toshiaki Tachibanaki, of Osaka, Japan, B. C. S. Otaru University of Commerce, 1967; M. of Economics Osaka University, 1969. Political Economy.

Quality Change in Labor Input and Wage Differentials: A Study of Japanese Manufacturing.

Jay Leslie Taft III, of Baltimore, Md., A. B. Lafayette College, 1967; M. A. The Johns Hopkins University, 1973. Earth and Planetary Sciences.

Phosphorus Cycling in the Plankton of Chesapeake Bay.

Philippe Tenret, of Wilmington, Del., B. A. University of Delaware, 1968; M. A. The Johns Hopkins University, 1973. Romance Languages.

Le Discours Revolutionnaire: Rhetorique et Ideologie.

Bruce Neil Troup, of Baltimore, Md., B. A. The Johns Hopkins University, 1970; M. A., 1973. Earth and Planetary Sciences.

The Interaction of Iron with Phosphate, Carbonate and Sulfide in Chesapeake Bay Interstitial Waters: A Thermodynamic Interpretation.

Kay Carol Unger, of Fort Wayne, Ind., B. A. University of California, 1968. Political Economy.

Monotone Operators and Revealed Preference.

Juzer Mohsin Vasi, of Bombay, India, B. Tech. Indian Institute of Technology, India, 1969. Electrical Engineering.

Diffusion Effects and Instabilities in Double Injection Devices.

Zdzislawa Anna Walaszek, of Warsaw, Poland. Social Relations.

Structural Differentiation and Social Decisions: An Experimental Study.

Wei-Kung Wang, of Taichung, Taiwan, B. S. National Taiwan University, 1966; M. S., 1968. Biophysics.

Glucose Metabolism in Developing Nervous System.

Harold Rogers Wanless, of Key Biscayne, Fla., A. B. Princeton University, 1964. Earth and Planetary Sciences.

Cambrian of the Grand Canyon—Reevaluation of the Depositional Environment.

Nancy Elizabeth Moller Weare, of Del Mar, Calif., A. B. Smith College, 1962; M. A. The Johns Hopkins University, 1967. Earth and Planetary Sciences.

Physiological Studies of Nitrogen Fixation by Blue-Green Algae.

John William Weaver, of Newark, Del., B. A. Eastern Mennonite College, 1952; M. A. University of Delaware, 1964. Electrical Engineering.

The Generation, Categorization and Evaluation of Patterns used in Psychophysical Experiments.

Yin-kann Wen, of Hsinchu, Taiwan, China, B. A. National Taiwan University, 1966. Political Economy.

An Econometric Study of the Commercial Paper Market in the United States.

Charles Evart Whitten, of Lincoln, Maine, A. B. Bowdoin College, 1969. Chemistry.

Preparation, Properties, and Synthetic Applications of Organocopper Reagents.

Robert Elmer Wilson, Jr., of Silver Spring, Md., B. A. The Johns Hopkins University, 1966; M. A., 1970. Earth and Planetary Sciences.

A Numerical Model of Dynamics in the Lower Potomac River Estuary.

Patricia Ann Kelsh Woolf, of Baltimore, Md., B. S. Purdue University, 1956; M. S. University of Washington, 1961. Education.

Informal Communication in Biochemical Research, *A Case Study: Cyclic 3', 5'-AMP.*

Richard Henry Worsham, of Baltimore, Md., B. A. The Johns Hopkins University, 1966. Mathematical Sciences.

Discrete Pursuit-Evasion Games with No Information—The Circle Game.

Grigsby Hart Wotton, Jr., of Columbia, S. C., B. A. Yale University, 1965. History.

New City of the South: Atlanta, 1843-1873.

Margaret Chien-jung Wu, of Olney, Md., B. A. National Taiwan University, 1956; M. S. University of Illinois, 1960. Mathematical Sciences.

Asymptotic Behavior of Posterior Distributions and Baye's Estimators for the Independent Not Identically Distributed Case.

Jack Benjamin Yates, of Ozark, Ark., B. A. University of Arkansas, 1970; M. A. The Johns Hopkins University, 1974. Psychology.

The Perception of Multiple Violations in Sentences.

Frances Frankel Yelen, of Coral Gables, Fla., A. B. University of Miami, 1962; M. A. The Johns Hopkins University, 1966. Political Science.

The Politics of Sun and Fun.

Mustafa Rasit Yilmaz, of Kayseri, Turkey, B. S. Middle East Technical University, Turkey, 1968. Mathematical Sciences.

Sequential Testing in Automated Health Screening.

Charles Morton Young III, of Claremont, Calif., B. A. William Marsh Rice University, 1968. Philosophy.

Justice and Technē in Plato's Republic.

Hamit Öner Yurtseven, of Kütahya, Turkey, B. S. Middle East Technical University, Turkey, 1967. Electrical Engineering.

Robust Filtering for Linear Systems.

THE JOHNS HOPKINS UNIVERSITY · BALTIMORE, MARYLAND 21218

OFFICE OF THE REGISTRAR

July 10, 1974

For those who use the Commencement Program as an official record of the awarding of degrees, please note the following changes to the 1974 Commencement Program:

ADDITIONS AND DELETIONS

1. Bachelors of Arts Degrees (Arts and Sciences)

Delete: Michael David Basco
James Hilary Bateman
John Elsas Broughton
Bruce Manley Brown
John Carroll Crisp, Jr.
Toye George Davis, Jr.
Scott Campbell Dennis
Bolivar Patricio Herdoiza
Philip Andrew Hieter
Paul Hyduke
Stuart Edward Moisan
Susan Jane Moran
Mary Joan Mouakad
John David Thomas
James Marion Woody, Jr.

2. Bachelor of Engineering Science Degrees (Arts and Sciences)

Delete: Frederick George Nelker

3. Bachelor of Science Degrees (The Evening College)

Delete: Charles Lee Orr

4. Bachelor of Science in Engineering Degrees (The Evening College)

Delete: Stanley Bogash

5. Master of Science Degrees (The Evening College)

Delete: Ely Mejer Braun
Paul Ju Chun

6. Master of Education Degrees (The Evening College)

Delete: Enriqueta Abad Hallare

7. Master of Liberal Arts Degrees (The Evening College)

Delete: Thomas Leo Flynn
Lawrence David Hart

8. Certificate of Advanced Study (The Evening College)

Add: Thomas Bongwoo Lee, of Baltimore, Md., B.A. Korea University, 1959; M.Ed. Lonsei University, 1969; M.Ed. The Johns Hopkins University, 1972. Education.

9. Master of Public Health Degrees (The School of Hygiene and Public Health)

Add: Nan D. Wolfe, of Crofton, Md., R.N. Hospital University of Pennsylvania, 1962; B.A. Catholic University of America, 1972.

10. Master of Arts Degrees (The School of Advanced International Studies)

Delete: Holly Roy Connelly
Thomas Pease Cutler
David Drexler
John Lenczowski
Sven Theus Malmberg
Fernando Mario-Luis Morales-Macedo, Jr
Paul Alan Richard
Sylvia M. Ruggeri
Jane Kay Stockard

11. Doctor of Science Degrees (The School of Hygiene and Public Health)

Add: James Nelson Wolf, of Evanston, Ill., B.A. University of Minnesota, 1966; M.H.A., 1968. Medical Care and Hospitals.
Decision-Making in a Prepaid Group Practice: The Congruence of Attitudes Between Decision-Makers and Members.

REC:em
7/2/74